

Electronic Data Reporting Acid Rain Program/ Subpart H

August 2002 Version 2.2

1. Who is required to use Electronic Data Reporting v2.1 or v2.2 formats?

For all units for which you are required to monitor and report emissions data according to 40 CFR Part 75, you must use either EDR v2.1 or v2.2. Presently, this includes Acid Rain Program units, and units in the NO_x Budget Trading Program that are subject to the monitoring and reporting provisions of Subpart H of Part 75.

2. Which Acid Rain Program and NO_x Budget Trading Program facilities are required to use EDR v2.1 and which ones are required to use EDR v2.2?

Acid Rain Program units have been required to report in EDR v2.1 since April 1, 2000.

Non-Acid Rain affected facilities subject to the NO_x Budget Trading Program must report in EDR v2.1 (or v2.2) beginning on:

- ! The applicable "commencement of reporting" date specified in the State SIP or in 40 CFR Part 97; or
- ! An earlier date if the NO_x Authorized Account Representative intends to apply for early reduction credits.

Note, however, that as a result of changes to Part 75 promulgated on June 12, 2002, you must upgrade from v2.1 to EDR v2.2 for some Acid Rain Program units and some NO_x Budget Trading Program units. The following units are affected by the upgrade to EDR v2.2:

- ! Units that do not produce electrical or steam load (e.g., cement kilns, refinery process heaters, etc.)
- ! Other ARP and Subpart H units that <u>elect</u> to use certain new options provided by the June 12, 2002 rule.

EPA is providing separate implementation guidance for each category of rule change, to clarify whether an upgrade to v2.2 is needed, and to indicate when the change can be implemented and whether resubmissions of quarterly data will be permitted (see "Implementation Guidelines for the June 12, 2002 Revisions to Part 75").

3. If my facility is load-based and I do not elect to use any of the new options in the June 12, 2002 rule, may I continue to report in EDR v2.1, using the January 24, 2001 instruction?

Yes. EPA will continue to accept EDR v2.1 files and plans to provide corrections and clarifications to the January 24, 2001 edition of the EDR v2.1 Instructions at a later date.

4. How do the structure and data elements of EDR v2.2 differ from EDR v2.1?

There are very few structural differences between EDR versions 2.1 and 2.2. All of the record types listed in Tables 1 through 5 below are common to both EDR versions. However, in EDR v2.2, five record types (i.e., RTs 300, 360, 504, 605 and 650) contain new data fields. These new data fields have been coded after the existing fields. No new data fields have been inserted between any of the existing fields. The new data fields are only to support changes to Part 75 that were promulgated on June 12, 2002.

In addition to the record type changes described above, the data element descriptions in a number of v2.2 Record Types differ from the corresponding data element descriptions in the v2.1 record types. Some new codes have also been added to the "RANGE" and "UNITS" columns of several records, and a few data fields have been reserved. Most of these changes are associated with the June 12, 2002 rule revisions.

Table A-1 in Appendix A of this document describes the structural differences between EDR versions 2.1 and 2.2. Table A-2 in Appendix A summarizes the differences in the data element descriptions, codes, etc. between the two EDR versions.

5. How is the EDR organized?

The EDR is divided into five tables:

Table 1 provides an index listing all the possible EDR record types that may be submitted in a v2.2 electronic report.

Tables 2 through 5 define the specific computerized layout or "record structures" of the electronic reports, containing the following types of data: Quarterly Emission Data (Table 2), Monitoring Plan Data (Table 3), Certification-QA/QC Test Data (Table 4), and Compliance Certification Data (Table 5).

The record structures in Tables 2 through 5 define the order, length, and placement of information within the electronic report or "file" (i.e., the Record Type, Type Code, Start Column, Data Element Description, Units, Range, Length, and Fortran (FTN) Format for each data element in the electronic report). This information is used to construct electronic files to submit electronic reports to the U.S. Environmental Protection Agency.

In Tables 1 through 5, each record type that differs from the January 24, 2001 edition of EDR v2.1, either by the addition of a new field or by a change to an existing field, description or code has been marked as "(Modified)" next to the description in the Record Type column. Note that some of the changes are not visible in this EDR format document because they involve new codes that are provided only in the EDR instructions document.

6. Which EDR records are needed for which programs?

The Program Column in Tables 2 through 5 indicates the regulatory programs for which each record type may be applicable. "ARP" indicates Part 75 Acid Rain Program requirements, and "Subpart H" indicates the applicability of the record to a unit using the NO_x mass monitoring provisions in Subpart H of Part 75 (e.g., units covered by the NO_x Budget Trading Program). This designation includes Acid Rain units also subject to Subpart H.

7. How do I find out more about reporting using the EDR v2.2 format?

More detailed information on the selection of record types for reporting and the use of specific columns within a record type for a particular program is included in the "*EDR v2.2 Reporting Instructions*" (August, 2002). You can find these instructions on EPA's Clean Air Markets Division homepage at www.epa.gov/airmarkets/.

TABLE 1: EDR v2.2 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Facility Information		Facility Identification (Modified)	100
(100)	Facility Information	Record Types Submitted (Optional)	101
		Facility Location and Identification Information (Modified)	102
Monitoring Data		SO ₂ Concentration Data (Modified)	200
(200)	Pollutant Gas Concentrations	NO _x Concentration Data (Modified)	201
		CO ₂ Concentration Data (Modified)	202
	D'1 + C C +	CO ₂ Diluent Concentration Data (Modified)	210
	Diluent Gas Concentrations	O ₂ Diluent Concentration Data (Modified)	211
	Moisture Data	Moisture Data (Modified)	212
	Volumetric Flow	Volumetric Flow Data (Modified)	220
	Daily Quality Assurance	Daily Calibration Test Data and Results	230
	Data and Results	Flow Daily Interference Check Results	231
		260	
	Reference Method Backup QA Data	Quality Assurance Run Data for Reference Method Analyzers or Systems Used as Backup CEMS	261
		Reference Method Backup Flow Rate Monitor (Run Summary)	262
Unit Data		Unit Operating Parameters (Modified)	300
(300)		Quarterly Cumulative Emissions Data	301
	W. 10 . 1	Oil Fuel Flow (Modified)	302
	Unit Operating and Cumulative Emissions Data	Gas Fuel Flow (Modified)	303
		Quarterly Heat Input From Long Term Fuel Flow Measurements for Qualifying Low Mass Emission Units (Modified)	305
		Cumulative NO _x Mass Emissions Data	307
		SO ₂ Mass Emissions Data	310
	SO ₂ Mass Emissions Data	SO ₂ Mass Emissions Alternative Estimation Parameters for Oil (Modified)	313
		SO ₂ Mass Emissions Alternative Estimation Parameters for Natural Gas (Modified)	314
		NO _x Emission Rate Data (Modified)	320
		NO _x Emission Rate Alternative Estimation Parameters for Oil and Gas (Modified)	323
	NO _x Emissions Data	NO _x Emission Rate Estimation Based on Appendix E (Modified)	324
		$\mathrm{NO_x}$ Emission Rate Estimation Based on Appendix E for Multiple Fuel Hours	325
		NO _x Mass Emissions	328

TABLE 1: EDR v2.2 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Unit Data	CO W . F	CO ₂ Mass Emissions Data	330
(300)	CO ₂ Mass Emissions Data	CO ₂ Mass Emissions Estimation Parameters	331
	Qualifying Low Mass Emissions Unit Data	Hourly Emissions Data for Qualifying Low Mass Emissions Units (Modified)	360
Monitoring Plan		Stack/Pipe Header Definition Table	503
Information (500)		Unit Information (Modified)	504
		Program Indicator for Report (Modified)	505
		EIA Cross Reference Information (Modified)	506
		Fuel Usage Data to Qualify as a Peaking Unit or an Acid Rain Program Gas-fired Unit (New)	507
		Subpart H Reporting Frequency Change	508
		Monitoring Systems/Analytical Components Table (Modified)	510
		Formula Table (Modified)	520
		Span Table (Modified)	530
		Maximums, Minimums, Defaults and Constants (Modified)	531
		Unit and Stack Operating Load Data (Modified)	535
		Range of Operation and, Normal Load or Level, and Load Usage (Modified)	536
		Fuel Flowmeter Data (Modified)	540
		Reasons for Monitoring System Downtime or Missing Parameter (Optional)	550
		Monitoring System Recertification, Maintenance, or Other Events	556
		Appendix E NO _x Correlation Curve Segments (Modified)	560
		Monitoring Methodology Information (Modified)	585
		Control Equipment Information (Modified)	586
		Unit Fuel Type (Modified)	587
Certification Test Data	Calibration/Error Tests	7-Day Calibration Error Test Data and Results	600
(600)	Linearity Checks	Linearity Check Data	601
	Emeanty Checks	Linearity Check Results	602
	Leak Checks	Flow Leak Check Results	603
	Flow/Load Checks	Reference Data for Flow-to-Load Ratio or Gross Heat Rate Evaluation (Modified)	605
		Quarterly Flow-to-Load Ratio or Gross Heat Rate Check	606

TABLE 1: EDR v2.2 ELECTRONIC DATA REPORTING RECORD TYPES

		RECORD TYPES	
GROUP	SUB-GROUP	RECORD TYPE	RECORD
Certification Test Data		RATA and Bias Test Data (Modified)	610
(600)		RATA and Bias Test Results (Modified)	611
	RATA/Bias Tests	Reference Method Supporting Data for Flow RATA Tests	614
		Reference Method Supporting Data for Flow RATA Tests)	615
		Reference Method Supporting Data for Flow RATA Tests	616
	Cycle Time Test	Cycle Time Test Data and Results	621
	On Line/Off Line Calibration Demonstration	Qualifying Test for Off-line Calibration Error Tests	623
	Miscellaneous QA Test/Activity	Other QA Activities (Modified)	624
	Fuel Flowmeter Accuracy	Fuel Flowmeter Accuracy Test (Modified)	627
	Tests	Accuracy Test for Orifice, Nozzle, or Venturi Type Fuel Flowmeters	628
	Quarterly Fuel Flow-to-Load	Baseline Data for Fuel-Flow-to-Load Ratio or Gross Heat Rate Check for Fuel Flowmeters (Modified)	629
	Analysis	Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified)	630
	Alta-matina Manitanina	Alternative Monitoring System Approval Petition Data	640
	Alternative Monitoring Petition Data	Alternative Monitoring System Approval Petition Results and Statistics	641
	LME Certification	Qualifying Data for Low Mass Emissions Units Excepted Methodology (Modified)	645
		NO _x Emission Rate Correlation Test Data (Modified)	650
	Appendix E	NO _x Emission Rate Correlation Results	651
	and Unit Specific Default	Heat Input from Oil Combusted During Test	652
	Emission Rate Test Data	Heat Input from Gas Combusted During Test	653
		Unit Group Testing (Modified)	660
		Single-load or Single-level Flow RATA Claim (Modified)	695
	QA Test	Fuel Flowmeter Accuracy Test Extension	696
	Extensions/Exemption	RATA Deadline Extension or Exemption (Modified)	697
	Claims	Quarterly QA Test Exemption Claim	698
		QA Test Extension Claim Based on Grace Period	699

TABLE 1: EDR v2.2 ELECTRONIC DATA REPORTING RECORD TYPES

RECORD TYPES									
GROUP	SUB-GROUP	RECORD TYPE	RECORD						
Certification Data (900)		Part 75 Certification Statement and Designated Representative Signature	900						
		Part 72 Certification Statement	901						
		Cover Letter Text (file specific) (Optional)	910						
	Certification Data	Cover Letter Text (not specific to file) (Optional)	920						
		Subpart H Certification Statement and NO _x Authorized Account Representative Signature	940						
		Subpart H General Certification Statement	941						
		Contact Person Record (Optional)	999						

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			FACILITY INFORMAT	TION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			FACILITY INFORMATION	ON				
Facility Identification	100	1	Record type code				3	I3
		4	Facility/ORISPL number				6	I6
(Modified)		10	Calendar quarter data contained in report			1-4	1	I1
(11	Calendar year data contained in report		YYYY	\$1993	4	I4
		15	EDR version (V2.0, V2.1) ⁺			V2.2	5	A5
					Total Recor	d Length	19	
Record Types	101	1	Record type code				3	I3
Submitted		4	Unit ID				6	A6
(Optional)		10	Stack/Pipe ID				6	A6
\ <u>I</u> /		16	Parameter reported ¹				7	A7
		23	Record type used				3	I3
		26	Number of records			1-9999	4	I4
					Total Recor	d Length	29	
Facility Location and	102	1	Record type code				3	I3
Identification Information		4	Plant name				20	A20
mormation		24	EPA facility ID (FINDS) [Reserved]				12	A12
(Modified)		36	EPA AIRS facility system (AFS) ID				10	A10
		46	State facility ID				15	A15
		61	Source category/type				20	A20
		81	Primary SIC code				4	I4
		85	State postal abbreviation				2	A2
		87	County code (FIPS)				3	I3
		90	Reserved				1	
		91	Latitude		DDMMSS		6	I6
		97	Longitude		DDDMMSS		7	I7
					Total Recor	d Length	103	

^{1.} EDR version 1.3B expires on 3/31/1999 and EDR version 1.3 expires on 3/31/2000.

Available codes are: CO2CONC, CO2MASS, DILUENT, FLOWRTE, GASRATE, HEATINP, LOWMASS, MOISTUR, NOXCONC, NOXMASS, NOXRATE, OILRATE, OPERATN, OSNSUMM, QTRSUMM, SO2CONC, SO2MASS

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			POLLUTANT GAS CONCENTR	ATIONS				
SO ₂ Concentration	200	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
ARP only		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Percent monitor data availability for SO ₂		%	0.0-100.0	5	F5.1
		29	Average SO ₂ concentration for the hour		ppm		6	F6.1
		35	Average SO ₂ concentration for the hour adjusted for bias		ppm		6	F6.1
		41	Method of determination code			01-10,12, 16,17,19, 20,21,22,23, 54,55	2	I2
				l .	Total Reco	ord Length	42	
NO _x Concentration	201	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average NO _x concentration for the hour		ppm	00 23	6	F6.1
		30	Method of determination code ³		Ph	01-04, 06-12,17, 19,20,21,22, 23,54,55	2	I2
		32	Adjusted average NO _x concentration for the hour		ppm		6	F6.1
		38	Percent monitor data availability for NO _x concentration		%	0.0-100.0	5	F5.1
					Total Reco	ord Length	42	
CO ₂ Concentration	202	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
ARP Only		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average CO ₂ concentration for the hour		%		6	F6.1
		30	Method of determination code			01-04, 06-10, 12,17,20, 23 ,54,55	2	I2
		32	Percent monitor data availability for CO ₂ concentration		%	0.0-100.0	5	F5.1
		·			Total Reco	ord Length	36	

³ MODCs 30 and 31 were used in EDR v2.0 for OTC sources. These codes are not allowed for EDR v2.1.

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			DILUENT GAS CONCENTRA	TIONS				
CO ₂ Diluent	210	1	Record type code				3	I3
Concentration Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
(1/10011100)		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average CO ₂ concentration for the hour		%	0.0-100.0	5	F5.1
		29	Method of determination code *			01-04, 06-10,12,17, 20, 23 ,54,55	2	I2
		31	Percent monitor data availability for CO ₂ concentration		%	0.0-100.0	5	F5.1
					Total Reco	ord Length	35	1
O ₂ Diluent	211	1	Record type code				3	I3
Concentration Data		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average O ₂ concentration for the hour		%	0.0-100.0	5	F5.1
		29	Method of determination code ⁴			01-04, 06-10, 12,17,20, 23 ,54,55	2	I2
		31	Moisture basis of measurement (W-wet or D-dry (for O_2 used for moisture calculations), Blank (for O_2 used only for diluent purposes))			W,D	1	A1
		32	Percent monitor data availability for O ₂ concentration		%	0.0-100.0	5	F5.1
					Total Rec	ord Length	36	
	1	1	MOISTURE DATA	1	T	1	Г	1
Moisture Data	212	1	Record type code				3	13
(Modified)		4	Unit/Stack ID				6	A6
(Manieu)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Average moisture content of flue gases for the hour		%H2O	0.0-100.0	5	F5.1
		29	Formula ID				3	A3
		32	Method of determination code ⁵			01-04, 06-10,12, 21, 23 ,54,55	2	12
		34	Percent monitor data availability for moisture		%	0.0-100.0	5	F5.1
					Total Rec	ord Length	38	

MODC 30 was used in EDR v2.0 for OTC sources. This code is not allowed for EDR v2.1

MODCs 30 and 31 were used in EDR v2.0 for OTC sources. These codes are not allowed for EDR v2.1.

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DAT	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			VOLUMETRIC FLOW				•	
Volumetric Flow Data	220	1	Record type code				3	I3
		4	Unit/Stack ID				6	A6
(Modified)		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Percent monitor data availability for volumetric flow		%	0.0-100.0	5	F5.1
		29	Average volumetric flow rate for the hour		scfh		10	I10
		39	Average volumetric flow rate for the hour adjusted for bias		scfh		10	I10
		49	Reserved				5	
		54	Operating ILoad range or operational bin number-corresponding to gross load			0001 -20	2	I2
		56	Method of determination code ⁵			01-12, 20, 23 ,54,55	2	I2
	L			I.	Total Reco	ord Length	57	
			DAILY QUALITY ASSURANCE DATA	AND RES	ULTS			
Daily Calibration Test	230	1	Record type code				3	I3
Data and Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Instrument span ²				13	F13.3
		37	Reference value ²				13	F13.3
		50	Measured value ²				13	F13.3
		63	Results (calibration error or R-A)		%,ppm	0.0-100.0	5	F5.1
		68	Alternative performance specification (APS) flag ³			0,1	1	I1
		69	Reserved				2	
		71	Calibration gas or reference signal level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
				•	Total Reco	ord Length	72	
Flow Daily Interference	231	1	Record type code				3	I3
Check Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Status (P-pass, F-fail)			P,F	1	A1
		25	Reserved	<u>L</u>			2	
					Total Reco	ord Length	26	

² Report span, reference values, and measured values in calibration span units defined in RT 530, column 62.

If an alternative performance specification (|R-A|) is used for SO_2 or NO_x low emitters or for low-span DP-type flow monitors, according to section 3 of Appendix A to Part 75, a 1 is reported; a zero is reported otherwise. For CO_2 or O_2 |R-A| is the normal calculation method; therefore, a 0 (zero) should always be reported for CO_2 and O_2 and there is no alternative specification.

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	MONITORING DATA									
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)		
			REFERENCE METHOD BACKUP	QA DATA	1					
Hourly Pollutant and	260	1	Record type code				3	I3		
Diluent Concentration		4	Unit/Stack ID				6	A6		
Data from RM Backup Analyzers		10	Reference method component ID				3	A3		
1 mary 2015		13	Reference method monitoring system ID				3	A3		
		16	Parameter monitored (SO2, NOX, CO2, O2)				4	A4		
		20	Run number				2	I2		
		22	Date		YYMMDD		6	I6		
		28	Hour		НН	00-23	2	I2		
				30	Unadjusted (raw) average pollutant or diluent concentration for the hour		%, ppm		7	F7.2
		37	Adjusted average pollutant or diluent concentration for the hour		%, ppm		7	F7.2		
					Total Reco	ord Length	43			

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Quality Assurance Run	261	1	Record type code				3	I3
Data for Reference Method Analyzers or		4	Unit/Stack ID				6	A6
Systems Used as		10	Reference method component ID				3	A3
Backup CEMS		13	Reference method monitoring system ID				3	A3
		16	Run number				2	I2
		18	RM run start date		YYMMDD		6	I6
		24	RM run start hour		НН	00-23	2	I2
		26	RM run end date		YYMMDD		6	I6
		32	Rm run end hour		HH	00-23	2	I2
		34	Type of analyzer/system			EXT, DIL	3	A3
		37	Moisture basis of RM analysis			WET, DRY	3	A3
		40	Instrument span (as defined in App A, Part 60)				5	I5
		45	Dilution factor				5	I5
		50	Reference zero gas concentration				7	F7.2
		57	Initial (pre-test) calibration responsezero gas				7	F7.2
		64	Pre-test calibration errorzero gas (% of span)		%		5	F5.1
		69	Reference mid-level gas concentration				7	F7.2
		76	Initial (pre-test) calibration responsemid gas				7	F7.2
		83	Pre-test calibration errormid gas (% of span)		%		5	F5.1
		88	Reference high-level gas concentration				7	F7.2
		95	Initial (pre-test) calibration responsehigh gas				7	F7.2
		102	Pre-test calibration errorhigh gas (% of span)		%		5	F5.1
		107	Upscale gas used during run (M-mid, H-high)			M.H	1	A1
		108	Pre-run system responsezero gas			,	7	F7.2
		115	Pre-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)		%		5	F5.1
		120	Post-run system responsezero gas				7	F7.2
		127	Post-run system bias (non-dilution) or calibration error (dilution)zero gas (% of span)		%		5	F5.1
		132	Pre-run system responseupscale gas				7	F7.2
		139	Pre-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)		%		5	F5.1
		144	Post-run system responseupscale gas				7	F7.2
		151	Post-run system bias (non-dilution) or calibration error (dilution)upscale gas (% of span)		%		5	F5.1
		156	Zero drift (% of span)		%		5	F5.1
		161	Calibration drift (% of span)		%		5	F5.1
		166	Stack gas density adjustment factor				5	F5.3
	•		-	-	Total Rec	ord Length	170	

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			MONITORING DATA	A				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Reference Method	262	1	Record type code				3	I3
Backup Flow Rate		4	Unit/Stack ID				6	A6
Monitor (Run Summary)		10	Reference method component ID				3	A3
Summary)		13	Reference method monitoring system ID				3	A3
		16	Run date		YYMMDD		6	I6
		22	Run hour		НН	00-23	2	I2
		24	Number of traverse points				2	I2
		26	(Square root of ^a P) _{avg.}		in. H ₂ O		5	F5.2
		31	T _s , stack temperature		°F		4	I4
		35	P _{bar} , barometric pressure, in. Hg		in. Hg		5	F5.2
		40	P _g , stack static pressure, in. H ₂ O		in. H ₂ O		5	F5.2
		45	% CO ₂ in stack gas, dry basis		%		5	F5.2
		50	% O ₂ in stack gas, dry basis		%		5	F5.2
		55	% moisture in stack gas		% H ₂ O		5	F5.2
		60	M _d , stack gas molecular weight, dry basis		lbs/lbs-mole		5	F5.2
		65	M _s , stack gas molecular weight, wet basis		lbs/lbs-mole		5	F5.2
		70	Pitot tube or probe coefficient				5	F5.3
		75	Date of latest pitot tube or probe calibration		YYMMDD		6	I6
		81	A _s , stack or duct cross-sectional area at test port		ft ²		6	F6.1
		87	Total volumetric flow rate		scfh		10	I10
		97	Average axial velocity		ft/sec		8	F8.3
		105	Reference method probe type				3	A3
					Total Reco	ord Length	107	_

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			UNIT OPERATING AND CUMULATIVE E	MISSION	S DATA			
Unit Operating	300	1	Record type code				3	I3
Parameters		4	Unit/Stack/Pipe ID				6	A6
		10	Date		YYMMDD		6	I6
		16	Hour		HH	00-23	2	I2
(Modified)		18	Unit operating time			0.00-1.00	4	F4.2
		22	Gross unit load during unit operation		MWe		6	I6
		28	Steam load during unit operation		1000 lb/hr		6	I6
		34	Operating IL oad range corresponding to gross load during unit or operational bin number			00-20	2	12
		36	Hourly heat input rate during unit operation for all fuels		mmBtu/hr		7	F7.1
		43	Heat input formula ID				3	A3
		46	F-factor for heat input calculation	CEMS Only			10	F10.1
		56	Use of diluent cap for heat input calculation for this hour (Y-cap used)	CEMS Only		Y	1	A1
		57	Total heat input for the hour	Optional	mmBtu		7	F7.1
		64	Type of fuel combusted during the hour ⁵				3	A3
				1	Total Reco	ord Length	66	
Quarterly Cumulative	301	1	Record type code				3	I3
Emissions Data		4	Unit/Stack/Pipe ID				6	A6
		10	Date of report generation		YYMMDD		6	I6
		16	Quarterly SO ₂ tons emitted		ton		10	F10.1
ARP Only		26	Cumulative annual SO ₂ tons emitted		ton		10	F10.1
		36	Quarterly average NO _x emission rate		lb/mmBtu		13	F13.3
		49	Cumulative annual average NO _x emission rate		lb/mmBtu		13	F13.3
		62	Quarterly CO ₂ tons emitted		ton		10	F10.1
		72	Cumulative annual CO ₂ tons emitted		ton		10	F10.1
		82	Quarterly total heat input		mmBtu		10	I10
		92	Cumulative annual total heat input		mmBtu		10	I10
		102	Reserved				6	
		108	Reserved				6	
		114	Quarterly unit/stack/pipe operating hours		hr		4	I4
		118	Cumulative annual unit/stack/pipe operating hours		hr		4	I4
					Total Reco	ord Length	121	

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

UNIT DATA											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)			
UNIT OPERATING AND CUMULATIVE EMISSIONS DATA											
Oil Fuel Flow	302	1	Record type code				3	I3			
		4	Unit/Pipe ID				6	A6			
		10	Monitoring system ID				3	A3			
(Modified)		13	Date		YYMMDD		6	I6			
(Woullied)		19	Hour		НН	00-23	2	I2			
		21	Mass flow rate of oil during oil combustion		lb/hr		10	F10.1			
		31	Source of data code for mass oil flow rate 4			0-6 ,8 ,9	1	I1			
		32	Operating Load range corresponding to gross load or operational bin number			<mark>0001-20</mark>	2	I2			
		34	Gross calorific value (GCV) of oil				10	F10.1			
		44	Source of data code for GCV of oil-5 [Reserved]	OTC only		0,1	1	11			
		45	Heat input rate from oil during oil combustion		mmBtu/hr		7	F7.1			
		52	Fuel usage time			0.01-1.00	4	F4.2			
		56	Type of oil 5				3	A3			
		59	Volumetric flow rate of oil during oil combustion				10	F10.1			
		69	Units of measure for volumetric oil flow rate ⁶				5	A5			
		74	Source of data code for volumetric oil flow rate ⁴			0,1,3 <mark>,5,6,-79</mark>	1	I1			
		75	Density of oil				8	F8.5			
		83	Units of measure for density of oil ⁶				5	A5			
		88	Source of data code for density of oil ⁷ [Reserved]	OTC only		0,1	1	II			
		89	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single)			M,S	1	A1			
		90	Type of oil sampling and GCV value used in calculations ⁷				2	I2			
		92	Type of oil sampling and density value used in calculations ⁷				2	I2			
	<u> </u>				Total Record L	ength	93				

Measured data (using a mass flowmeter)

Substitute data using load-based-lookback procedures

Mass flowrate derived from volumetric measurement (Column 31 only)

Maximum fuel flow rate (Missing data purposes only. This value should also be used for OTC NBP units using long term fuel flow missing data

procedures:)
Emergency fuel (maximum unit fuel flow rate) (Column 31 only)

Ignitor oil from tank measurements

Uncertified OFFM to measure ignitor oil

Prorated long-term volumetric fuel measurement (OTC NBP only)

Prorated long-term mass fuel measurement (OTC NBP only)

9 = Default minimum fuel flow rate

- See instructions for allowable codes.
- SCFH (scf/hr); GALHR (gal/hr); BBLHR (barrels/hr), M3HR (m³/hr) LBSCF (lb/scf); LBGAL (lb/gal); LBBBL (lb/barrel), LBM3 (lb/m³) VOLUMETRIC OIL FLOW: Limited to a Table of Codes: DENSITY:

Type of oil sampling and value used:

Actual measured value from daily manual sample

- Actual measured value from flow proportional/weekly composite sample
- Actual measured value from oil tank sample
- Highest sampled value in previous calendar year from oil tank sampling (or a higher sampled value, superseding the assumed value)
- Highest sampled value in previous calendar year from as delivered sample (or a higher sampled value, superseding the assumed value)

 Maximum value allowed by contract (only if or a higher than measured oil tank sample value, superseding the assumed value)

 Maximum value allowed by contract (only if higher than measured oil as delivered sample)

 Missing data (mMaximum potential value from Table D-6) for missing data or emergency fuel

 LME GCV/Density Default

Highest sampled value in previous 30 days

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	UNIT DATA											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)				
			UNIT OPERATING AND CUMULATIVE E	MISSION	S DATA							
Gas Fuel Flow	303	1	Record type code				3	I3				
		4	Unit/Pipe ID				6	A6				
		10	Monitoring system ID				3	A3				
(Modified)		13	Date		YYMMDD		6	I6				
		19	Hour		НН	00-23	2	I2				
		21	Flow rate of gas during gas combustion		100 scfh		10	F10.1				
		31	Source of data code for gas flow rate 8			0-4 ,3,7,9	1	I1				
		32	Operating ILoad range corresponding to gross load or operational bin number			0001 -20	2	I2				
		34	Gross calorific value (GCV) of gas		Btu/100 scf		10	F10.1				
		44	Source of data code for GCV-† [Reserved]	OTC only		0,1	1	H				
		45	Heat input rate from gas during gas combustion		mmBtu/hr		7	F7.1				
		52	Fuel usage time			0.01-1.00	4	F4.2				
		56	Type of gas ⁵				3	A3				
		59	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single fuel)			M,S	1	A1				
		60	Type of gas sampling and GCV value used in calculations ⁹			0-2,4-8,10	2	I2				
					Total Reco	ord Length	61					
Quarterly Heat Input	305	1	Record type code				3	I3				
From Long Term Fuel		4	Unit/Pipe ID				6	A6				
Flow Measurements for Qualifying Low Mass		10	Monitoring system ID				3	A3				
Emission Units		13	Type of fuel ⁵				3	A3				
		16	Quarter or reporting period			1-4, 2A,2S	2	A2				
(Modified)		18	Year		YYYY		4	I4				
		22	Quarterly or reporting period fuel flow				10	I10				
		32	Units of measure for fuel flow 10				5	A5				
		37	Gross calorific value				10	F10.1				
		47	Gross calorific value units of measure 11				8	A8				
		55	Total heat input		mmBtu		10	I10				
					Total Reco	ord Length	64					

Hourly Measurement

- Substitute Data Using Load Based Lookback Procedures
- Default Minimum Fuel Flow Rate
- Maximum Unit Fuel Flow Rate (missing data procedures)
- Emergency Fuel (maximum unit fuel flow rate)
- Actual Measured GCV From Most Recent Monthly Sampling Highest of All Sampled Values in Previous Calendar Year (or a higher sampled value, superseding the assumed value)
 - Maximum Value Allowed by Contract (if higher than monthly sample (or a higher sampled value, superseding the assumed value)

 - Highest GCV in Previous 30 Daily Samples
 Actual Measured GCV From Continuous (hourly) Sampling
 Gas Fuel in Lots, as Delivered Sampling: Highest of All Sampled Values in Previous Calendar Year (or a higher sampled value, superseding the
 - Gas Fuel in Lots, as Delivered Sampling: Maximum Value Allowed by Contract (if higher than all delivered samples in previous calendar year or a higher sampled value, superseding the assumed value)

 Actual Measured GCV From Daily Sampling

 - Missing Data Based on Table D-6 Default
 - LME GCV Default
 - Actual GCV From Most Recent Shipment or Lot
- 10 Limited to a table of codes: LB, SCF, GAL
- Limited to a table of codes: BTU/LB, BTU/SCF, BTU/GAL

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
	_	a.	UNIT OPERATING AND CUMULATIVE E	MISSION	S DATA	_	_	_
Cumulative	307	1	Record type code				3	13
NO _x Mass Emissions Data		4	Unit/Stack/Pipe ID				6	A6
		10	Date of report generation		YYYYMMD D		8	I8
ARP LME and		18	Reporting period NO _x tons emitted		ton		10	F10.1
Subpart H Only		28	Cumulative ozone season NO _x tons emitted		ton		10	F10.1
		38	Reporting period heat input		mmBtu		10	F10.1
		48	Cumulative ozone season heat input		mmBtu		10	F10.1
		58	Total reporting period operating hours		hr		4	I4
		62	Cumulative ozone season operating hours		hr		5	I5
		67	Cumulative annual NO _x tons emitted		ton		10	F10.1
		77	Cumulative annual total heat input	Subpart H only	mmBtu		10	I10
		87	Cumulative annual unit/stack/pipe operating hours	Subpart H only	hr		4	I4
					Total Reco	ord Length	90	
			SO2 MASS EMISSIONS DA	ТА				
SO ₂ Mass Emissions	310	1	Record type code				3	13
Data		4	Unit/Stack ID				6	A6
		10	Date		YYMMDD		6	I6
ARP Only		16	Hour		НН	00-23	2	12
		18	SO ₂ mass emission rate for the hour		lb/hr		7	F7.1
		25	SO ₂ mass emission rate during unit operation based on adjusted values		lb/hr		7	F7.1
		32	Formula ID from monitoring plan for hourly SO ₂ emissions				3	A3
		35	Total SO ₂ mass emissions for the hour	Optional	lb		7	F7.1
					Total Record	Length	41	

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

SO, Mass Emissions ARP Only 19 Hour 10 10 10 10 10 10 10 1				UNIT DATA					
SO, Mass Emissions Alternative Estimation Parameters for Oil (Modified) 10 Monitoring system ID 13 Date 14 Monitoring system ID 13 Date 15 Monitoring system ID 14 Monitoring system ID 15 Monitoring system ID 16 Monitoring system ID 17 Monitoring system ID 18 Monitoring system ID 19 Hour 19 Hour 10 HH 100-23 2 12 12 Sulfur content of oil sample used to calculate SO, mass emission rate 10 Monitoring oil combustion 10 Monitoring system ID 10 Monitoring oil combustion 10 Monitoring system ID 11 Monitoring system ID 13 Date 10 Monitoring system ID 13 Date 13 Date 14 Monitoring system ID 13 Date 14 Monitoring system ID 13 Date 14 Monitoring system ID 15 Monitoring system ID 16 Monitoring system ID 17 MH 17 MH 17 MH 18 Monitoring system ID 16 Monitoring system ID 17 MH 17 MH 18 Monitoring system ID 18 Monitoring system ID 19 Hour 11 MH 100-23 2 12 12 Sulfur content of gas sample used to calculate SO, mass emission rate 16 MinmBtu 7 F7.5				DATA ELEMENT DESCRIPTION		UNITS	RANGE	LENGTH	FORMAT (FTN)
Alternative Estimation Parameters for Oil (Modified) ARP Only 10 10 11 11 12 13 13 14 15 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18				SO2 MASS EMISSIONS DAT	ГА				
Parameters for Gil	SO ₂ Mass Emissions	313	1	Record type code				3	I3
13 Date YYMMDD 6 16 16 16 17 19 19 19 19 19 19 19			4	Unit/Pipe ID				6	A6
ARP Only 13	(Modified)		10	Monitoring system ID				3	A3
21 Sulfur content of oil sample used to calculate % .01-5.0 5 F5.2			13	Date		YYMMDD		6	I6
SO ₂ mass emission rate 26 Reserved 29 Reserved 30 SO ₂ mass emission rate from oil during oil combustion 37 Total SO ₂ mass emissions from oil Optional lb 7 F7.1	ARP Only		19	Hour		НН	00-23	2	I2
29 Reserved 30 SO ₂ mass emission rate from oil during oil combustion 37 Total SO ₂ mass emissions from oil Optional Ibhr 7 F7.1			21	Sulfur content of oil sample used to calculate SO_2 mass emission rate		%	.01-5.0	5	F5.2
30 SO ₂ mass emission rate from oil during oil combustion 37 Total SO ₂ mass emissions from oil Optional Ib			26	Reserved				3	
SO ₂ Mass Emissions Alternative Estimation Parameters for Gas So Modified ARP Only So Modified Modified Modified So Modified Modi			29	Reserved				1	
A4 Type of sulfur sampling and value used in calculations 12 12			30			lb/hr		7	F7.1
Calculations 12 Total Record Length 45			37	Total SO ₂ mass emissions from oil	Optional	1b		7	F7.1
SO ₂ Mass Emissions Alternative Estimation Parameters for Gas (Modified)			44	Type of sulfur sampling and value used in calculations 12			0-8 1-9	2	12
Alternative Estimation Parameters for Gas (Modified) ARP Only 10 Monitoring system ID 13 Date 19 Hour 19 Hour 21 Sulfur content of gas sample used to calculate SO ₂ mass emission rate 29 Reserved 30 Default SO ₂ emission rate 37 SO ₂ mass emission rate from gas during gas combustion 45 Total SO ₂ mass emissions from gas 52 Type of sulfur sampling and value used in calculate used in calculations 12					•	Total Reco	ord Length	45	
ARP Only Are Only		314	1	Record type code				3	I3
ARP Only 13 Date 19 Hour 21 Sulfur content of gas sample used to calculate SO ₂ mass emission rate 29 Reserved 30 Default SO ₂ emission rate 37 SO ₂ mass emission rate from gas during gas combustion 45 Total SO ₂ mass emissions from gas 52 Type of sulfur sampling and value used in calculations 12 10 Default SO ₂ mass emissions from gas 54 Type of sulfur sampling and value used in calculations 12 10 Default SO ₂ mass emissions from gas 55 Type of sulfur sampling and value used in calculations 12 10 Default SO ₂ mass emissions from gas 55 Type of sulfur sampling and value used in calculations 12			4	Unit/Pipe ID				6	A6
ARP Only 19 Hour 21 Sulfur content of gas sample used to calculate SO_2 mass emission rate 29 Reserved 30 Default SO_2 emission rate from gas during gas combustion 45 Total SO_2 mass emissions from gas 52 Type of sulfur sampling and value used in calculations SO_2 mass emissions SO_2 mass emissions SO_2 mass emissions from gas 45 Total SO_2 mass emissions SO_2 mass emis	(Modified)		10	Monitoring system ID				3	A3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ARP Only		13	Date		YYMMDD		6	I6
$SO_2 \text{ mass emission rate}$ 29Reserved $30 \text{Default SO}_2 \text{ emission rate}$ $37 \text{SO}_2 \text{ mass emission rate from gas during gas combustion}$ $45 \text{Total SO}_2 \text{ mass emissions from gas}$ $45 \text{Total SO}_2 \text{ mass emissions from gas}$ $45 \text{Total SO}_2 \text{ mass emissions from gas}$ $45 \text{Type of sulfur sampling and value used in calculations}$ $45 \text{Type of sulfur sampling and value used in calculations}$ $45 \text{Type of sulfur sampling and value used in calculations}$ $45 \text{Type of sulfur sampling and value used in calculations}$ $45 \text{Type of sulfur sampling and value used in calculations}$	in only		19	Hour		НН	00-23	2	I2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			21	Sulfur content of gas sample used to calculate SO_2 mass emission rate				8	F8.1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			29	Reserved				1	
combustion 45 Total SO_2 mass emissions from gas Optional lb 7 F7.1 Type of sulfur sampling and value used in calculations 12 Optional lb 0,3,5, 2 7-10			30	Default SO ₂ emission rate		lb/mmBtu		7	F7.5
Type of sulfur sampling and value used in calculations ¹² 0,3,5, 2 12 7-10			37			lb/hr		8	F8.5
calculations ¹² 7-10			45	Total SO ₂ mass emissions from gas	Optional	lb		7	F7.1
Total Record Length 53			52	Type of sulfur sampling and value used in calculations 12				2	I2
					1	Total Reco	ord Length	53	

Type of data for sulfur content:

1 = Actual measured hourly average sample from GCH (gas)
1 = Actual measured value from oil composite sample

Actual measured value from oil tank sample

Highest daily sample in 30 daily samples (gas or oil)

Highest sampled value in previous calendar year from oil tank sampling (or a higher sampled value, superseding the assumed value)

Highest sampled value in previous calendar year from as delivered sample (gas or oil) (or a higher sampled value, superseding the assumed value)

Maximum value allowed by contract (only ifor a higher than measured oil tank sample value, superseding the assumed value)

Maximum value allowed by contract (only ifor a higher than measured gas or oil as delivered sample value, superseding the assumed value)

Missing Data (mMaximum potential value from Table D-6 for oil or gas) for missing data or emergency fuel

^{9 =} Actual measured value from daily sample 10 = Actual measured value from most recent shipment or lot (gas)

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			NO _x EMISSIONS DATA					
NO _x Emission Rate	320	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
		13	Date		YYMMDD		6	I6
(Modified)		19	Hour		НН	00-23	2	I2
		21	Percent monitor data availability for NO _x emission rate calculations		%	0.0-100.0	5	F5.1
		26	F-factor converting NO _x concentrations to emission rates				10	F10.1
		36	Average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		42	Adjusted average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		48	Operating IL oad range corresponding to gross load for the hour or operational bin number			0001 -10	2	12
		50	Formula ID from monitoring plan for hourly NO _x emission rate				3	A3
		53	Method of determination code ⁵			01-12, 14,21, <mark>22,</mark> 23, 25,54,55	2	I2
					Total Record	Length	54	
NO _x Emission Rate	323	1	Record type code				3	I3
Alternative Estimation	Ī	4	Unit/Pipe ID				6	A6
Parameters for Oil and Gas		10	Monitoring system ID				3	A3
Cus		13	Date		YYMMDD		6	I6
		19	Hour		НН	00-23	2	I2
(Modified)		21	Parameters status flag (Y-in spec, N-out of spec, X-parameters data missing or invalid, W-operation above highest tested heat input point, Z-operation below lowest tested heat input point, E-Emergency Fuel, U-Uncontrolled)			Y,N,X, W,Z,E,U	1	Al
		22	Average NO _x emission rate for the hour		lb/mmBtu		6	F6.3
		28	Reserved				6	
		34	Reserved				6	
		40	Segment ID of correlation curve				3	A3
			•	•	Total Reco	ord Length	42	•

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

			UNIT DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
	_		NO _x EMISSIONS DATA					
NO _x Emission Rate	324	1	Record type code				3	I3
Estimation Based on Appendix E		4	Unit/Pipe ID				6	A6
		10	NO _x monitoring system ID				3	A3
		13	Fuel flow monitoring system ID				3	A3
(Modified)		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	12
		24	Parameters status flag (Y-in spec, N-out of spec, X-parameters data missing or invalid, W-operation above highest tested heat input point, Z-operation below lowest tested heat input point, E-Emergency fuel, U-Uncontrolled)			Y,N,X, W,Z, <mark>E,U</mark>	1	A1
		25	Average NO _x emission rate for the hour for fuel type		lb/mmBtu		6	F6.3
		31	NO _x mass emission rate for the hour for fuel type		lb/hr		11	F11.2
		42	Segment ID of correlation curve				3	A3
		45	Flag to indicate multiple or single fuel types combusted (M-multiple, S-single)			M,S	1	A1
					Total Record	Length	45	
NO _x Emission Rate Estimation Based on	325	1	Record type code				3	I3
Appendix E for		4	Unit/Pipe ID				6	A6
Multiple Fuel Hours		10	Date		YYMMDD		6	I6
		16	Hour		НН	00-23	2	I2
		18	Average NO _x emission rate for all fuels during multiple fuel hours		lb/mmBtu		6	F6.3
					Total Record	Length	23	
NO _x Mass Emissions	328	1	Record type code				3	I3
		4	Unit/Stack/Pipe ID				6	A6
Subpart H Only		10	Date		YYMMDD		6	I6
		16	Hour		НН	00-23	2	I2
		18	Unit operating time	0 41 1	11 4	0.00-1.00	4	F4.2
		22	NO _x mass emission rate during unit operation	Optional	lb/hr		10	F10.1
		32 42	Total NO _x mass emissions for the hour Formula ID from monitoring plan for total NO _x		lb		10 3	F10.1 A3
		45	mass				10	A 10
		45 55	NO _x methodology for the hour ⁵ Heat input rate methodology for the hour ⁵				10 10	A10 A10
		JJ	Freat input rate incurouology for the nour		Total Reco	ord Length	64	AIU

TABLE 4 2: QUARTERLY EMISSION DATA FILE RECORD STRUCTURES

	UNIT DATA											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)				
			CO2 MASS EMISSIONS DA	TA			_					
CO ₂ Mass Emissions	330	1	Record type code				3	I3				
Data		4	Unit/Stack/Pipe ID				6	A6				
		10	Date		YYMMDD		6	I6				
ARP Only		16	Hour		НН	00-23	2	I2				
		18	CO ₂ mass emission rate for the hour		ton/hr		10	F10.1				
		28	Formula ID from monitoring plan for hourly CO ₂ mass emission rate				3	A3				
		31	Reserved				2					
		33	Total CO ₂ mass emissions for the hour	Optional	ton		10	F10.1				
		43	Use of diluent cap value for CO ₂ calculation for this hour (Y-cap used)	CEMS only		Y	1	A1				
	r	1		1	Total Reco	ord Length	43	1				
CO ₂ Mass Emissions Estimation Parameters	331	1	Record type code				3	I3				
ARP Only		4	Unit/Stack ID				6	A6				
ART Olly		10	Date		YYMMDD		6	I6				
		16	Total daily combustion-related CO ₂ mass emissions adjusted for CO ₂ retained in flyash		ton		10	F10.1				
		26	Total daily sorbent-related CO ₂ mass emissions		ton		10	F10.1				
		36	Total daily CO ₂ mass emissions		ton		10	F10.1				
			QUALIFYING LOW MASS EMISSION	C LIMIT D		ord Length	45					
Hourly Emissions Data	360	1	Record type code	S UNII DA	AIA		3	I3				
for Qualifying Low Mass Emissions Units		4	Unit ID				6	A6				
Mass Emissions Cints		10	Date		YYMMDD		6	I6				
LME Ouls		16	Hour		НН	00-23	2	I2				
LME Only		18	Unit operating time ¹³			0.0-1.00	4	F4.2				
0.5 1.5 1)		22	Gross unit load during unit operation		MWe		6	I6				
(Modified)		28	Steam load		1000 lb/hr		6	I6				
		34	Total hourly heat input (from all fuels)		mmBtu		7	F7.1				
		41	Fuel type ¹⁴				3	A3				
		44	SO ₂ mass emissions	ARP only	lb		6	F6.1				
		50	NO _x mass emissions		lb		6	F6.1				
		56	CO ₂ mass emissions	ARP only	ton		9	F9.1				
		65	Control status (C-controlled, U-uncontrolled)			C,U	1	A1				
		66	NO _x methodology for the hour ⁵				10	A10				
		76	Heat input rate methodology for the hour ⁵				10	A10				
		86	Base Load or Peak Load hour			В,Р	1	A1				
	<u> </u>			•	Total Record	Length	86					

For LME units using long term fuel flow and reporting RT 305, report 1.00 for each hour in which any operation occurred.

See instructions for allowable codes. If multiple fuels are burned, report the fuel used to determine mass emissions (fuel with the highest SO_2 , CO_2 , and/or NO_x emission factor). See §§ 75.19(c)(3)(i), (4)(i), and (5)(i).

TABLE 5 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFORM	IATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Stack/Pipe Header Definition Table	503	1	Record type code				3	I3
Definition Table		4	Stack/Pipe ID				6	A6
		10	Stack/Pipe description or name				20	A20
		30	Unit ID for associated unit				6	A6
		36	Reserved				1	
		37	Reserved				6	
		43	Reserved				6	
		49	Activation date		YYMMDD		6	I6
		55	Retirement date		YYMMDD	_	6	I6
		61	Bypass stack flag (B-bypass)			В	1	A1
		62	Stack exit height above ground level		ft		4	I4
		66	Ground level elevation above sea level		ft c.2		5	I5
		71	Inside cross-sectional area at flue exit		ft ²		4	I4
		75	Inside cross-sectional area at flow monitor location		ft ² Total Record	d Length	4 78	I4
Unit Information	504	1	Record type code				3	I3
		4	Unit ID				6	A6
		10	Unit type ⁵				3	A3
(Modified)		13	Maximum hourly heat input capacity		mmBtu		7	F7.1
		20	Date of first commercial operation		YYYYMMDD		8	18
		28	Unit retirement date		YYYYMMDD		8	I8
		36	Stack exit height above ground level		ft		4	I4
		40	Ground level elevation above sea level		ft		5	I5
		45	Inside cross-sectional area at flue exit		ft ²		4	I4
		49	Inside cross-sectional area at flow monitor location		ft ²		4	I4
		53	Non load-based unit identifier				1	A 1
	1	ı		T	Total Record	d Length	53	
Program Indicator	505	1	Record type code				3	I3
for Report		4	Unit ID				6	A6
(Modified)		10	Program/Reporting requirements for which EDR is submitted ¹⁵				10	A10
		20	Unit classification ⁵				2	A2
		22	Reporting frequency (OS-ozone season, Q-quarterly)			OS,Q	2	A2
		24	Program participation date		YYYYMMDD		8	I8
		32	State regulation code (per State instructions)	OTC and Subpart H only			10	A10
		42	State or local regulatory agency code (see instructions)	OTC and Subpart H only			4	A4
	<u> </u>	<u> </u>	1		Total Record	d Length	45	
EIA Cross	506	1	Record type code				3	I3
Reference Information		4	Unit ID				6	A6
Information		10	Acid Rain Program or Subpart H monitoring				6	A6
(Modified)			location ID				_	
			EIA boiler ID				5	A5
			EIA flue ID				5	A5
			EIA reporting year			,,	4	I4
		30	EIA reporting indicator (N-not reporting EIA forms)			N	1	A1
		31	ARP/Subpart II facility/ORISPL number [Reserved]				6	I6
		37	EIA facility number				6	I6
					Total Record	d Length	42	

Available codes are: ARP, NBP, OTC-SUBH, SUBH, SIP

TABLE 5 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFORM	MATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Fuel Usage Data	507	1	Record type code				3	I3
to Qualify as a Peaking Unit or		4	Unit ID				6	A6
an Acid Rain		10	Current calendar year or ozone season		YYYY		4	I4
Program Gas-		14	Ozone Season or Year 1		YYYY		4	I4
Fired Unit		18	Ozone Season or Year 1 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		19	Ozone Season or Year 1 % capacity for peaking units or % heat input for gaseous fuel		%	0.0-100.0	5	F5.1
		24	Ozone Season or Year 2		YYYY		4	I4
		28	Ozone Season or Year 2 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		29	Ozone Season or Year 2 % capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		34	Ozone Season or Year 3		YYYY		4	I4
		38	Ozone Season or Year 3 type (P-projected, A-actual, D-operating data)			P,A,D	1	A1
		39	Ozone Season or Year 3 % capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		44	Three ozone season or year average annual capacity for peaking units or % heat input from gaseous fuel		%	0.0-100.0	5	F5.1
		49	Type of qualification (GF-gas-fired unit, PK-peaking unit, SK-ozone season peaking unit)			GF,PK, SK	2	A2
		51	Method of qualifying as a peaking unit or as a gas- fired unit per § 72.2 5				3	A3
1					Total Record	Length	53	
Subpart H	508	1	Record type code				3	I3
Reporting		4	Stack/Unit/Pipe ID				6	A6
Frequency Change		10	New reporting frequency (OS-ozone season only, Q-quarterly)			OS, Q	2	A2
		12	Begin date of new reporting frequency		YYYYMMDD		8	18
Subpart H Only		20	[Reserved]				8	
		28	[Reserved]				1	
	1	T		_	Total Record	d Length	28	
Monitoring Systems/	510		Record type code				3	I3
Analytical			Unit/Stack/Pipe ID				6	A6
Components		10	Component ID				3	A3
Table		13	Monitoring system ID				3	A3
(Modified)		16	Status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
(iviounicu)			System parameter monitored ¹⁶				4	A4
			Primary/backup designation ¹⁷				2	A2
		23	Component type code 18				4	A4
		27	Sample acquisition method ⁵				3	A3
			Manufacturer				25	A25
			Model/version				15	A15
		70	Serial number				20	A20
			Reserved				6	
			Reserved				4	_
			First date system reported data		YYYYMMDD		8	I8
		108	Last date system reported data		YYYYMMDD		8	I8
			<u></u>		Total Record I	Length	115	

Limited to a table of codes: System Parameter: CO2, FLOW, GAS, H2O, LTGS, LTOL, NOX, NOXC, O2, OILM, OILV, OP, SO2

Limited to a table of codes: Primary/Backup Designation: P-primary, B-regular non-redundant backup, DB-data backup, RB-redundant backup, RM-reference method backup, CI-certified monitor at control device inlet

Limited to a table of codes: Component Type:

BGFF, BOFF, CALR, CO2, CO2A, CO2H, CO2L, DAHS, DL, DP, FLC, FLOW, GCH, GFFM, H2O, NOX, NOXA, NOXH, NOXL, O2D, O2DA, O2DH, O2DL, O2W, O2WA, O2WD, O2WH, O2WL, OFFM, OP, PLC, PRB, PRES, SO2, SO2A, SO2H, SO2L, TANK, TEMP

TABLE 5 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFOR	MATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Formula Table	520	1	Record type code				3	I3
		4	Unit/Stack/Pipe ID				6	A6
(Modified)		10	Submission status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1
		11	Formula ID				3	A3
		14	Parameter monitored ⁵				4	A4
		18	Formula code ⁵				5	A5
		23	Formula text				200	A200
·		•			Total Record	d Length	222	
Span Table	530	1	Record type code				3	I3
(Modified)		4	Unit/Stack ID				6	A6
		10	Parameter monitored ⁵				4	A4
		14	Scale (H-high, L-low)			H,L	1	A1
		15	Method for calculating MPC/MEC/MPF (F-formula, HD-historical data, PL-permit limit, OL-other limit, TR-test results, TB-table in Part 75, ME-manufacturer's estimate, GS-gas fired only)			F,HD, OL,PL, ME,TR, TB,GS	2	A2
		17	MPC/MEC/MPF 19				13	F13.3
		30	Maximum potential NO _x emission rate		lb/mmBtu		6	F6.3
		36	Span value in units of daily calibration				13	F13.3
		49	Full scale range in units of daily calibration				13	F13.3
		62	Daily calibration units of measure ²⁰				5	A5
		67	Reserved				1	
		68	Span effective date		YYMMDD		6	I6
		74	Span effective hour		НН		2	I2
		76	Span inactivation date		YYMMDD		6	I6
		82	Span inactivation hour		НН		2	I2
		84	Dual spans required (D-dual ranges required/installed, O-dual ranges required/use of optional default high range value elected) (Blank if not applicable)			D,O	1	A1
		85	Default high range value				5	I5
		90	Flow rate span value in SCFH		scfh		9	I9
		99	Flow rate full scale value in SCFH		scfh		9	I9
<u> </u>					Total Record	d Length	107	

Provide SO_2 and NO_x MPC/MEC in ppm, rounded to the nearest whole number. Provide CO_2 MPC in %. Provide flow maximum potential flowrate (MPF) in sefh.

For SO₂ and NO₃ use PPM. For CO₂ or O₂ use %. For flow use units corresponding to calibration as follows: ACFH, ACFM, AFPM, INH2θO, KACFH, KACFM, KAFPM, KSCFH, KSCFM, KSFPM, MACFH, MSCFH, SCFM, SFPM, AMSEC, SMSEC.

TABLE 5 3: MONITORING PLAN FILE RECORD STRUCTURES

	MONITORING PLAN INFORMATION											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)				
Maximums,	531	1	Record type code				3	I3				
Minimums, Defaults and		4	Unit/Stack/Pipe ID				6	A6				
Constants		10	Parameter ⁵				4	A4				
(Modified)		14	Value of default, maximum, minimum or constant				13	F13.3				
		27	Units of measure ²¹				7	A7				
		34	Purpose or intended use ⁵				3	A3				
		37	Type of fuel ⁵				3	A3				
		40	Indicator of use for controlled/uncontrolled hours (A-any hour, C-controlled, U-uncontrolled)			A,C,U	1	A1				
		41	Source of value ⁵				4	A4				
		45	Value effective date		YYYYMMDD		8	18				
		53	Value effective hour		НН		2	I2				
		55	Value no longer effective date		YYYYMMDD		8	18				
		63	Value no longer effective hour		НН		2	12				
		65	SO ₂ emission factor for low mass emissions units	ARP only	lb/mmBtu		6	F6.4				
				•	Total Record	d Length	70					
Unit and Stack	535	1	Record type code				3	13				
Operating Load Data		4	Unit/Stack/Pipe ID				6	A6				
(Modified)		10	Load units (MW-MWe, ST-1000lb steam)			MW,ST	2	A2				
		12	Maximum hourly gross load				6	I6				
		18	Designated normal load [Reserved]	OTC only		L,M,H	1	A1				
		19	Single load testing only (for flow RATA or, for OTC only, heat input RATA) Exemption from three-level flow RATAs (P-peaking unit, B-bypass stack, and, for OTC only, S-single load testing only, approved by the State or EPA, 2-two-level testing for cert/recert and QA, approved by State or EPA)			B,P,S, 2	1	Al				
		I			Total Record	d Length	19					
Range of	536	1	Record type code				3	I3				
Operation and Normal Operating		4	Unit/Stack ID				6	A6				
Load or Level-, and Load Usage		10	Upper boundary of range of operation		MWe, 1000 lb/hr, ft/sec		6	I6				
(Modified)		16	Lower boundary of range of operation		MWe, 1000 lb/hr, ft/sec		6	I6				
		22	Two most frequently-used load or operating levels			L,M,H	3	A3				
		25	Designated normal load or operating level			L,M,H	1	A1				
		26	Second designated normal load or operating level	Optional		L,M,H	1	A1				
		27	Date of historical load analysis or operating level determination (activation date)		YYYYMMDD		8	18				
		35	Inactivation date		YYYYMMDD		8	18				
					Total Record	d Length	42					

TABLE 5 3: MONITORING PLAN FILE RECORD STRUCTURES

	MONITORING PLAN INFORMATION											
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)				
Fuel Flowmeter	540	1	Record type code				3	I3				
Data		4	Unit/Pipe ID				6	A6				
(Modified)		10	Monitoring system ID				3	A3				
(Woulifed)		13	Parameter monitored			GAS, LTGS, LTOL, OILM, OILV	4	A4				
		17	Type of fuel ⁵				3	A3				
		20	Maximum system fuel flow rate				10	F10.1				
		30	Units of measure for maximum fuel flow rate ²²				5	A5				
		35	Source of maximum rate (URV-upper range value, UMX-unit max)			URV, UMX	3	A3				
		38	Initial accuracy test method 5				11	A11				
		49	Reserved				11					
		60	Submission status (A-add, C-correct, D-delete, U-unchanged)			A,C,D,U	1	A1				
					Total Record	d Length	60					
Reasons for	550	1	Record type code				3	I3				
Monitoring System Downtime		4	Unit/Stack/Pipe ID				6	A6				
or Missing Parameter		10	Parameter ⁵				4	A4				
Parameter		14	Monitoring system ID				3	A3				
(Optional)			Begin date		YYMMDD		6	I6				
			Begin hour		НН	00-23	2	I2				
			End date		YYMMDD		6	I6				
			End hour		НН	00-23	2	I2				
		33	Missing data reason code 5			1-99	2	I2				
		35	Missing data description ²³				75	A75				
		110	Corrective action description		T . 1 D	17 .1	75	A75				
Manitarina	550	1	lpd 6d-	1	Total Record	d Length	184	12				
Monitoring System	556		Record type code Unit/Stack/Pipe ID				3	I3				
Re-certification,		4 10	1				6	A6 A3				
Maintenance, or Other		13	Component ID Monitoring system ID				3	A3				
Events			Event code ⁵			1-999	3	I3				
			Code for required test ⁵			1-99	2	I2				
			Date of event		YYYYMMDD	1))	8	I8				
		29	Hour of event		HH	00-23	2	I2				
			Beginning of conditionally valid period (probationary calibration error test) date		YYYYMMDD		8	I8				
		39	Beginning of conditionally valid period (probationary calibration error test) hour		НН	00-23	2	12				
		41	Date that last test is successfully completed		YYYYMMDD		8	I8				
			Hour that last test is successfully completed		НН	00-23	2	I2				
		51	Indicator that conditionally valid data were reported at end of quarter			С	1	A1				
			1	•	Total Record	d Length	51					

For volumetric flow meters for oil use SCFH (scf/hr); GALHR (gal/hr); BBLHR (barrels/hr); M3HR (M³/hr). For mass of oil flow meters use LBHR. For gas flow meters use HSCF (for 100 scfh).

Optional field. Provide information if code does not adequately explain reason or event or if code 99 (OTHER) is used.

TABLE 5 3: MONITORING PLAN FILE RECORD STRUCTURES

			MONITORING PLAN INFORM	IATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
Appendix E NO _x	560	1	Record type code				3	I3
Correlation Curve Segments		4	Unit/Pipe ID				6	A6
Beginents		10	Test date		YYYYMMDD		8	18
25.42.6		18	Test number				2	I2
(Modified)		20	Operating level			0-99	2	I2
		22	Segment ID				3	A3
		25	NO _x monitoring system ID				3	A3
		28	Heat input rate #1 (low)		mmBtu/hr		7	F7.1
		35	Heat input rate #2 (high)		mmBtu/hr		7	F7.1
		42	NO _x emission rate #1		lb/mmBtu		6	F6.3
		48	NO _x emission rate #2		lb/mmBtu		6	F6.3
		54	Type of fuel ⁵				3	A3
		57	Identical unit group ID (if applicable) [Reserved]	OTC only			8	A8
					Total Record	d Length	64	
Monitoring	585	1	Record type code				3	I3
Methodology Information		4	Unit ID				6	A6
mormation		10	Parameter ⁵				4	A4
0.6 110 15		14	Monitoring methodology ⁵				10	A10
(Modified)		24	Type of fuel associated with methodology 5				3	A3
		27	Primary/secondary methodology indicator			P,S	1	A1
		28	Missing data approach for methodology ⁵				6	A6
		34	Methodology start date		YYYYMMDD		8	18
		42	Methodology end date		YYYYMMDD		8	I8
			T		Total Record	d Length	49	
Control	586	1	Record type code				3	I3
Equipment Information		4	Unit ID				6	A6
		10	Parameter (NOX, SO2, PART)				4	A4
(Modified)		14	Control equipment code ⁵				6	A6
		20	Primary/secondary controls indicator			P,S	1	A1
		21	Original installation (O-original)			О	1	A1
		22	Controls install date		YYYYMMDD		8	18
		30	Controls optimization date		YYYYMMDD		8	18
		38	Controls retirement date		YYYYMMDD		8	I8
		46	Seasonal controls indicator (S-ozone season only)	OTC and Subpart		S	1	A1
				H only	Total Record	d Lenoth	46	
Unit Fuel Type	587	1	Record type code		1 Juli Recold	a Longui	3	I3
* 1		4	Unit ID				6	A6
(Modified)		10	Fuel types combusted ⁵				3	A3
		13	Fuel type start date		YYYYMMDD		8	I8
		21	Fuel type end date		YYYYMMDD		8	18
		29	Primary/secondary/emergency/startup fuel		-11111111111111111111111111111111111111	E,I,P,S	1	A1
			indicator					
		30	Ozone season fuel switching flag (S-burned during ozone season for ozone control)	OTC and Subpart H only		S	1	A1
		31	Demonstration method to qualify for monthly fuel sampling for GCV			GHS, GGC, GOC	3	A3
		34	Demonstration method to qualify for daily or annual fuel sampling for %S	ARP only		SHS, SGC	3	A3
			<u> </u>		Total Record Le	ength	36	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		•	CALIBRATION/ERRO	R TESTS				
7-Day	600	1	Record type code				3	I3
Calibration Error Test		4	Unit/Stack ID				6	A6
Data and		10	Component ID				3	A3
Results		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Instrument span				13	F13.3
		37	Reference value				13	F13.3
		50	Measured value				13	F13.3
		63	Results (calibration error or R-A)		%, ppm	0.0-100.0	5	F5.1
		68	Alternative performance specification (APS) flag ³			0,1	1	I1
		69	Reference signal or calibration gas level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		70	Span scale (H-high, L-low)			H,L	1	A1
		71	Test number				2	I2
		73	Reason for test (C-initial cert, D-diagnostic, R-recert)			C,D,R	2	A2
		•			Total Reco	ord Length	74	
T :: ':	CO1	1 1	LINEARITY CHEC	CKS	ı		1 2	12
Linearity Check Data	601	1	Record type code				3	I3
Check Bata		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID		VAN A ADD		3	A3
		16	Date		YYMMDD	0000 2250	6	I6
		22	Time		HHMM	0000-2359	4	I4
		26 39	Instrument span Reference value				13 13	F13.3 F13.3
		52	Measured value				13	F13.3 F13.3
		65	Calibration gas level (Z-zero, L-low, M-mid,			Z,L,M,H	13	A1
		66	H-high) Span scale (H-high, L-low)			H,L	1	A1
		67	Test number				2	I2
		69	Indicator of aborted test (A-aborted test)			Α	1	A1
		1		1	Total Reco	ord Length	69	
Linearity	602	1	Record type code				3	I3
Check		4	Unit/Stack ID				6	A6
Results		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Instrument span				13	F13.3
		35	Mean of reference values				13	F13.3
		48	Mean of measured values				13	F13.3
		61	Results (linearity error or R-A)		%, ppm	0.0-100.0	5	F5.1
		66	Alternative performance specification (APS) flag ³			0,1	1	I1
		67	Reserved				4	
		71	Calibration gas level (Z-zero, L-low, M-mid, H-high)			Z,L,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
		73	Test number				2	I2
		75	Reason for test (C-initial cert, D-diagnostic, R-recert, Q-QA, G-grace period QA)			C,D,R,Q, RG,RQ,G	2	A2
				•	Total Reco	ord Length	76	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TI	EST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			LEAK CHECK	S				
Flow Leak Check	603	1	Record type code				3	I3
Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Status (P-pass, F-fail)			P,F	1	A1
		25	Reserved				4	
		29	Reason for test (D-diagnostic, Q-QA, G-grace period QA)			D,Q,G	2	A2
				•	Total Reco	ord Length	30	
			FLOW/LOAD CH	ECKS				
Reference	605	1	Record type code				3	I3
Data for Flow-to-		4	Unit/Stack ID				6	A6
Load Ratio or Gross		10	Monitoring system ID				3	A3
Heat Rate Evaluation		13	Reference flow RATA end date		YYYYMMDD		8	18
		21	Reference RATA end time		ННММ	0000-2359	Q,G 2 egth 30 3 6 3 8 0-2359 4 2 6	I 4
(Modified)		25	Test number				2	I2
(Wodified)		27	Average gross unit load (MWe or Steam)		MWe, 1000 lb/hr steam		6	I6
		33	Operating level (L-low, M-mid, H-high) (N-normal, for peaking units only)			L,M,H,N	1	A1
		34	Average reference method flow rate during reference flow RATA		scfh		10	I10
		44	Reference flow/load ratio				6	F6.2
		50	Average hourly heat input rate during RATA		mmBtu/hr		7	F7.1
		57	Reference gross heat rate (GHR) value		Btu/kw-hr, Btu/lb steam		6	I6
		63	Separate reference ratios calculated for each multiple stack			S	1	A1
		-	•	•	Total Reco	ord Length	63	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)	
			FLOW/LOAD CHEC	CKS					
Quarterly	606	1	Record type code				3	I3	
Flow-to- Load Ratio		4	Unit/Stack ID				6	A6	
or Gross Heat Rate		10	Monitoring system ID				3	A3	
Check		13	Calendar quarter and year		QYYYY		5	I5	
		18	Test basis indicator (Q-flow-to-load ratio; H-gross heat rate)			Q,H	1	A1	
		19	Bias adjusted flow rates used (Y,N)			Y,N	1	A1	
		20	Average absolute % difference between reference ratio (or GHR) and hourly ratios (or GHR values), $E_{\rm f}$		%	0.0-100.0	5	F5.1	
			25	Result (P-pass, F-fail, N-<168 hours within ± 10% of average load, E-<168 hours for data analysis after exempted hours removed)			P,F,N,E	1	A1
		26	Number of hours used in quarterly flow-to-load or GHR analysis		hrs		4	I4	
		30	Number of hours excluded for different type of fuel		hrs		4	I 4	
		34	Number of hours excluded for load ramping up or down		hrs		4	I 4	
		38	Number of hours excluded for scrubber bypass		hrs		4	I4	
		42	Number of excluded hours preceding a normal load flow RATA		hrs		4	I4	
		46	Number of excluded hours preceding a successful diagnostic test, following a documented monitor repair, or following a major component replacement		hrs		4	I4	
		50	Number of hours excluded for flue gases discharging simultaneously through a main stack and bypass stack		hrs		4	I4	
					Total Reco	ord Length	53	_	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
RATA and Bias Test	610	1	Record type code				3	I3
Data		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
(Modified)		13	Run start date		YYMMDD		6	I6
		19	Run start time		ННММ	0000-2359	4	I4
		23	Run end date		YYMMDD		6	I6
		29	Run end time		ННММ	0000-2359	4	I4
		33	Units of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ , 5-%O ₂ 6-mmBtu/hr (OTC NBP only), 7-%H ₂ 0)			1-7	1	I1
		34	Value from CEM system being tested				13	F13.3
		47	Value from reference method, adjusted as necessary for moisture and/or calibration bias				13	F13.3
		60	Run number				2	I2
		62	RATA run status flag 0 - RATA used, run not used 1 - run data used in calculating relative accuracy and bias 9 - test aborted			0,1,9	1	11
		63	Operating level (L-low, M-mid, H-high) (Use N-normal for peaking units only)			L,M,H,N	1	A1
		64	Gross unit load or average velocity at operating level		MWe, 1000 lbs/hr ft/sec		6	I6
		70	Test number				2	I2
					Total Reco	ord Length	71	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	S				
RATA and	611	1	Record type code				3	I3
Bias Test Results		4	Unit/Stack ID				6	A6
		10	Monitoring system ID				3	A3
(Modified)		13	RATA end date		YYMMDD		6	I6
(12 12)		19	RATA end time		ННММ	0000-2359	4	I4
		23	Reference method used ⁵				11	A11
		34	Units of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ ,5-%O ₂ , 6-mmBtu/hr, 7-%H ₂ 0)			1-7	1	I1
		35	Arithmetic mean of CEMS values				13	F13.3
		48	Arithmetic mean of reference method values				13	F13.3
		61	Arithmetic mean of the difference data				13	F13.3
		74	Standard deviation of difference data				13	F13.3
		87	Confidence coefficient				13	F13.3
		100	Relative accuracy				5	F5.2
		105	Tabulated t- value (bias test)				6	F6.3
		111	Bias adjustment factor at this load level				5	F5.3
		116	Operating level (L-low, M-mid, H-high) (Use N-normal, for peaking units only)			L,M,H,N	1	A1
		117	Average gross unit load (MWe or steam) or average velocity at operating level		MWe, 1000 lbs/hr ft/sec		6	I6
		123	Reserved				4	
		127	Indication of normal load (or operating level) (N-normal, otherwise, blank)			N	1	A1
		128	Alternative performance specification (APS) flag ⁶			0,1	1	I 1
		129	Test number				2	I2
		131	Reason for RATA (C-initial cert, D-diagnostic, R-recert, Q-QA, G-grace period QA)			C,D,R,Q, RQ,G,QD	2	A2
		133	Number of load (or operating) levels comprising test (1 for gas RATAs, 1-3 for flow or heat input RATAs)			1-3	1	I1
		134	System bias adjustment factor for a multiple load (multiple level) flow RATA				5	F5.3
					Total Reco	ord Length	138	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	rs .				, ,
Reference	614	1	Record type code				3	I3
Method Supporting		4	Unit/Stack ID				6	A6
Data for Flow RATA		10	Monitoring system ID				3	A3
Tests		13	Test number				2	I2
(Methods 2, 2F, 2G, and		15	Operating level			H,M,L,N	1	A1
2H)		16	Run number				2	I2
Run Level		18	Run start date		YYYYMMDD		8	I8
Data		26	Run start time		ННММ	0000-2359	4	I4
		30	Run end date		YYYYMMDD		8	I8
		38	Run end time		ННММ	0000-2359	4	I4
		42	Flow rate reference method(s) used ⁵			2F,2G, 2FH,2GH, M2H	3	A3
		45	Number of traverse points				2	12
		47	P _{bar} , barometric pressure, in. Hg		in. Hg		5	F5.2
		52	P _g , stack static pressure, in. H ₂ O		in. H ₂ O		5	F5.2
		57	% CO ₂ in stack gas, dry basis		%		5	F5.1
		62	% O ₂ in stack gas, dry basis		%		5	F5.1
		67	CO_2 and O_2 reference method			3,3A	4	A4
		71	% moisture in stack gas		$^{9}\text{H}_{2}\text{O}$		5	F5.1
		76	M _d , stack gas molecular weight, dry basis		lbs/lbs-mole		5	F5.2
		81	M _s , stack gas molecular weight, wet basis		lbs/lbs-mole		5	F5.2
		86	Stack diameter at test port location		ft		5	F5.2
		91	A _s , stack or duct cross-sectional area at test port		ft^2		6	F6.1
		97	v _s , Average velocity for run, not accounting for wall effects		ft/sec		6	F6.2
		103	v _s , Average velocity for run, accounting for wall effects		ft/sec		6	F6.2
		109	Calculated wall effects adjustment factor (WAF) derived from this test run				6	F6.4
		115	Calculated WAF applied to all runs of this RATA			\$0.9700	6	F6.4
		121	Default WAF applied to all runs of this RATA			0.9900, 0.9950	6	F6.4
		127	Average stack flow rate, wet basis, adjusted if applicable for wall effects		scfh		10	I10
					Total Reco	rd Length	136	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			RATA/BIAS TEST	rs .				
Reference Method	615	1	Record type code				3	I3
Supporting Data for		4	Unit/Stack ID				6	A6
Flow RATA		10	Monitoring system ID				3	A3
Tests		13	Test number				2	I2
(Methods 2, 2F, 2G, and		15	Operating level			L,M,H,N	1	A1
2H)		16	Run number				2	I2
Traverse Point Level Data		18	Reference method probe type			S,P,AS, DA, DAT,SPH	4	A4
		22	Probe ID				11	A11
		33	Pressure measurement device type			MN,MG, ET	2	A2
		35	Method 1 traverse point ID				3	A3
		38	Probe or pitot tube velocity calibration coefficient				5	F5.3
		43	Date of latest probe or pitot tube calibration		YYYYMMDD		8	I8
		51	Average velocity differential pressure at traverse point		in. H ₂ O		5	F5.3
		56	Average of square roots of velocity differential pressures at traverse point		(in H ₂ O) ^{1/2}		5	F5.3
		61	T_s , stack temperature at traverse point		°F		5	F5.1
		66	Exterior Method 1 traverse point identifier			W	1	A1
		67	Number of wall effects measurement points used to derive replacement velocity				2	I2
		69	Yaw angle of flow at traverse point		degrees	-179.9 to +180.0	6	F6.1
		75	Pitch angle of flow at traverse point		degrees	-179.9 to +180.0	6	F6.1
		81	Calculated velocity at traverse point, not accounting for wall effects		ft/sec		6	F6.2
		87	Replacement velocity at traverse point, accounting for wall effects		ft/sec		6	F6.2
				_	Total Reco	rd Length	92	
Reference Method	616	1	Record type code				3	I3
Supporting		4	Unit/Stack ID				6	A6
Data for Flow		10	Monitoring system ID				3	A3
RATA Tests		13	Test number				2	I2
(Method 2 and 2H,		15	Operating level		L,M,H,N		1	A1
default WAF only)		16	RATA end date		YYYYMMDD		8	I8
omy)		24	RATA end time		ННММ	0000-2359	4	I4
		28	Default wall effects adjustment factor used			0.9900, 0.9950	6	F6.4
					Total Reco	rd Length	33	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		•	CYCLE TIME TE	ST				
Cycle Time	621	1	Record type code				3	I3
Test Data and Results		4	Unit/Stack ID				6	A6
		10	Component ID				3	A3
		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Start time		HHMM	0000-2359	4	I4
		26	End time		HHMM	0000-2359	4	I4
		30	Component cycle time		min		2	I2
		32	Stable starting monitor value				13	F13.3
		45	Stable ending monitor value				13	F13.3
		58	Calibration gas value				13	F13.3
		71	Calibration gas level (Z-zero, H-high)			Z,H	1	A1
		72	Total or system cycle time ²⁴		min		2	I2
		74	Reason for test (C-initial cert, D-diagnostic, R-recert)			C,D,R	2	A2
		76	Test number				2	I2
1					Total Reco	ord Length	77	
			ON LINE/OFF LINE CALIBRATION	DEMONS	TRATION			
Qualifying	623	1	Record type code				3	I3
Test for Off- line		4	Unit/Stack ID				6	A6
Calibration Error Tests		10	Component ID				3	A3
Enor rests		13	Monitoring system ID				3	A3
		16	Date		YYMMDD		6	I6
		22	Hour		НН	00-23	2	I2
		24	Instrument span				13	F13.3
		37	Reference value				13	F13.3
		50	Measured value				13	F13.3
		63	Results (CE or R-A)		%,ppm	0.00-100.0	5	F5.1
		68	Alternative specification flag ³			0,1	1	I1
		69	Reserved				2	
		71	Calibration gas or reference signal level (Z-zero, M-mid, H-high)			Z,M,H	1	A1
		72	Span scale (H-high, L-low)			H,L	1	A1
		73	Off-line/On-line indicator (OFF-unit not operating, ON-unit operating)			ON,OFF	3	A3
		76	Reason for test (C-initial demonstration, D-diagnostic)			C,D	1	A1
		77	Test number				2	I2
					Total Reco	ord Length	78	

For NO_x and SO_2 emission rate (lb/mmBtu) systems, report the longer cycle time of the two component analyzers as the system cycle time.

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			MISCELLANEOUS QA TES'	r/ACTIVIT	ГΥ			
Other QA	624	1	Record type code		I		3	I3
Activities		4	Unit/Stack/Pipe ID				6	A6
		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
		16	Parameter				4	A4
		20	Activity/test completion date		YYYYMMDD		8	18
		28	Activity/test completion hour		НН	00-23	2	I2
		30	QA test activity description				20	A20
		50	Test result (P-pass, F-fail)			P,F	1	A1
		51	Reason for test (C-initial cert, D-diagnostic, R-recert, Q-QA)			C,D,R,Q, RQ	2	A2
		53	QA test code			01,02,03, <mark>04</mark> , 05,99	2	I2
					Total Reco	ord Length	54	
			FUEL FLOWMETER ACCUR	ACY CHE	CKS	1		-
Fuel Flowmeter	627	1	Record type code				3	I3
Accuracy		4	Unit/Pipe ID				6	A6
Test		10	Component ID				3	A3
(Modified)		13	Monitoring system ID				3	A3
(Modified)		16	Test completion date		YYYYMMDD		8	I8
		24	Test completion hour		НН		2	I2
		26	Reinstallation date (leave blank for in-line test)		YYYYMMDD		8	I8
		34	Reinstallation hour (leave blank for in-line test)		HH		2	I2
		36	Accuracy at low fuel flowrate (% of URV)		%		5	F5.1 F5.1
		41	Highest accuracy at mid fuel flowrate (% of URV)		%		5 5	F5.1 F5.1
		46	Accuracy at high fuel flowrate (% of URV)		%			
		51	Test method (L-lab comparison to reference meter, I-in-line comparison to master meter)			I,L	1	A1
		52	Test result (A-aborted, P-pass, F-fail)			A,P,F	1	A1
		53	Test number			17 4	2	I2
Aggurgay	628	1	Record type code	1	Total Reco	ord Length	54 3	I3
Accuracy Test for	028	4	Unit/Pipe ID				6	15 A6
Orifice,		10	Component ID				3	A3
Nozzle, or		13	Monitoring system ID				3	A3
Venturi Type Fuel		16	Test completion date		YYYYMMDD		8	I8
Flowmeters		24	Test completion hour		HH		2	I2
		26	Accuracy determination at low level ²⁵		%		5	F5.1
		31	Accuracy determination methodology for low level 5		70		4	A4
		35	Highest accuracy determination at mid level ²⁵		%		5	F5.1
		40	Accuracy determination methodology for mid level ⁵		,,		4	A4
		44	Accuracy determination at high level ²⁵		%		5	F5.1
		49	Accuracy determination methodology for high level ⁵				4	A4
		53	Test result (A-aborted, P-pass, F-fail)			A,P,F	1	A1
		54	Test number			, ,	2	I2
	<u> </u>		1		Total Reco	ord Length	55	

Report either: (1) the highest individual accuracy of any of the three transmitters; or (2) the sum of the three transmitter accuracies; or (3) the total fuel flowmeter accuracy calculated according to AGA3 part 1, "General Equations and Uncertainty Guidelines."

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

RECORD TYPE				CERTIFICATION TE	ST DATA				
Baseline C29				DATA ELEMENT DESCRIPTION		UNITS	RANGE	LENGTH	
Data for Fuel-Flow-to-Load 10 Monitoring system ID				QUARTERLY FUEL FLOW-TO-I	LOAD ANA	LYSIS			
Finel-Flow		629		1				3	I3
Sation or Gross Isal Completion date of most recent primary element impaction 13 Completion hour of most recent primary element impaction 13 Completion hour of most recent flowmeter or transmiter accuracy test 14 15 15 15 15 15 15 15				1					-
Cross Heat Rate Check for Fuel 12 Completion bour of most recent primary clement 13 Completion bour of most recent flowmeter or 13 Completion bour of most recent flowmeter or 13 Completion bour of most recent flowmeter or 14 14 14 15 15 15 16 16 16 16 16			-						_
1	Gross Heat		13			YYYYMMDD		8	18
Completion due of most recent flowmeter or transmiter accuracy test	for Fuel		21	Completion hour of most recent primary element inspection		НН		2	I2
Beginning date of baseline period	(Modified)		23			YYYYMMDD		8	I8
33 Beginning date of baseline period			31	Completion hour of most recent flowmeter or transmitter accuracy test		НН		2	12
43 Completion date of baseline period YYYYMMDD 8 18 15 10 Completion hour of baseline period HH 2 12 12 13 3 3 3 3 3 3 3 3			33	1		YYYYMMDD		8	18
43 Completion date of baseline period YYYYMMDD 8 18 15 10 Completion hour of baseline period HH 2 12 12 13 3 3 3 3 3 3 3 3						нн			
S1 Completion hour of baseline period									
53				1					
63				Average fuel flow rate (100 scfh for gas and lb/hr					
69 Baseline fuel-flow-to-load ratio 1-4 1 11 11 11 11 11 11			63					6	16
1.4				1				-	_
Content Cont							1_1		
Number of hours excluded due to co-firing or combustion of a different type of fuel progress and that < 4 calendar quarters have elapsed since quarter of the last flowmeter QA test			15	2-100scfh/klb per hour steam, 3-(lb/hr)/MWe,			1-4	1	11
Number of hours excluded due to co-firing or combustion of a different type of fuel 93 Number of hours excluded due to co-firing or combustion of a different type of fuel 93 Number of hours excluded due to ramping 96 Number of excluded hours in lower 25% of range of operation 99 Flag indicating baseline data collection is in progress and that < 4 calendar quarters have elapsed since quarter of the last flowmeter QA test 13 13 14 14 15 15 15 15 15 15			76	Average hourly heat input rate		mmBtu/hr		7	F7.1
Steam 90			83	Baseline GHR				6	I6
90 Number of hours excluded due to co-firing or combustion of a different type of fuel 93 Number of hours excluded due to camping hrs 3 13 13 96 Number of hours excluded hours in lower 25% of range of operation 99 Flag indicating baseline data collection is in progress and that < 4 calendar quarters have elapsed since quarter of the last flowmeter QA test Total Record Length 99			89				1-2	1	I1
93			90	Number of hours excluded due to co-firing or		hrs		3	I3
Page			93	Number of hours excluded due to ramping		hrs		3	I3
Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified) Part Pagindicating baseline data collection is in progress and that < 4 calendar quarters have elapsed since quarter of the last flowmeter QA test Total Record Length 99 Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified) Flowmeters (Modified) Pagindicating baseline data collection is in progress and that < 4 calendar quarter Abave elapsed since quarter QA test Total Record Length 99 Total Record Length 99 Garden Pagindicating			96			hrs		3	I3
Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified) Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified) A Unit/Pipe ID A Unit/Pipe ID B Calendar quarter and year QYYYY Calendar QAH Al Al Al Al Al Al Calendar quarter and year Calendar quarter and year QYYYY Calendar QAH Al Al Al Al Al Calendar quarter and year Calendar quarter and year QYYYY Calendar QAH Al Al Al Al Al Calendar quarter and year QYYYY Calendar QAH Al Al Al Al Al Al Calendar quarter and year QYYYY Calendar QAH Al Al Al Al Al Al Al Calendar quarter and year QYYYY Calendar QAH Al Al Al Al Al Al Al Al Al			99	Flag indicating baseline data collection is in progress and that < 4 calendar quarters have			В	1	A1
Quarterly Fuel-Flow-to-Load Test for Fuel Flowmeters				crapsed since quarter of the last nowineter Q14 test		Total Reco	rd Length	99	
Fuel-Flow-to-Load Test for Fuel Flowmeters (Modified) 4 Unit/Pipe ID Monitoring system ID 13 Component ID 16 Calendar quarter and year 21 Test basis indicator (Q-flow-to-load ratio, H-gross heat rate) 22 Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly quarterly ratios (or GHR values), E _t 27 Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress) 28 Number of hours used in the quarterly data analysis 32 Number of hours excluded due to co-firing or combustion of a different type of fuel 36 Number of hours excluded due to ramping 40 Number of excluded hours in lower 25% of range of operation	Quarterly	630	1	Record type code		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			I3
10 Monitoring system ID 3 A3 A3	Fuel-Flow-	220		1				-	
Flowmeters (Modified) 13				1					
(Modified) 16 Calendar quarter and year 21 Test basis indicator (Q-flow-to-load ratio, H-gross heat rate) 22 Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly quarterly ratios (or GHR values), E _r 27 Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress) 28 Number of hours used in the quarterly data analysis 32 Number of hours excluded due to co-firing or combustion of a different type of fuel 36 Number of hours excluded due to ramping 40 Number of excluded hours in lower 25% of range of operation 41 A1 42 A1 43 A2 A1 A1 A1			-						
21 Test basis indicator (Q-flow-to-load ratio, H-gross heat rate) 22 Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly quarterly ratios (or GHR values), E _f 27 Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress) 28 Number of hours used in the quarterly data analysis 32 Number of hours excluded due to co-firing or combustion of a different type of fuel 36 Number of hours excluded due to ramping 40 Number of excluded hours in lower 25% of range of operation	04 15 1			_		OYYYY			
22 Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly quarterly ratios (or GHR values), E _f 27 Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress) 28 Number of hours used in the quarterly data analysis 32 Number of hours excluded due to co-firing or combustion of a different type of fuel 36 Number of hours excluded due to ramping 40 Number of excluded hours in lower 25% of range of operation 40 Number of excluded hours in lower 25% of range of operation	(Modified)			Test basis indicator (Q-flow-to-load ratio, H-gross		QIIII	Q,H		
27 Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed, B-baseline data collection in progress) 28 Number of hours used in the quarterly data analysis 32 Number of hours excluded due to co-firing or combustion of a different type of fuel 36 Number of hours excluded due to ramping hrs 4 14 40 Number of excluded hours in lower 25% of range of operation hrs 4 14			22	Quarterly average absolute % difference between baseline ratio (or baseline GHR) and hourly		%	0.0-100.0	5	F5.1
analysis Number of hours excluded due to co-firing or combustion of a different type of fuel Number of hours excluded due to ramping Number of hours excluded due to ramping Number of excluded hours in lower 25% of range of operation hrs 4 14 14 14 15 16 17 18 19 19 19 10 10 11 11 11 11 12 13 14 15 16 17 18 19 19 10 10 10 10 10 10 10 10			27	Result (P-pass, F-fail, N-<168 hours data, E-<168 hours of data after exemptions removed,			P,F,N,E,B	1	A1
combustion of a different type of fuel 36 Number of hours excluded due to ramping hrs 4 40 Number of excluded hours in lower 25% of range of operation hrs 4 41 I4			28			hrs		4	I4
Number of hours excluded due to ramping hrs 4 14 40 Number of excluded hours in lower 25% of range of operation hrs 4 14			32	Number of hours excluded due to co-firing or		hrs		4	I4
Number of excluded hours in lower 25% of range hrs 4 I4			36			hrs		4	I4
				Number of excluded hours in lower 25% of range					
		<u> </u>	<u> </u>	L 2.4000.	<u> </u>	Total Reco	rd Length	43	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			ALTERNATIVE MONITORING I	PETITION	DATA			
Alternative	640	1	Record type code				3	I3
Monitoring System		4	Unit/Stack ID				6	A6
Approval		10	Component ID				3	A3
Petition Data		13	Monitoring system ID				3	A3
		16	AMS ID				6	A6
		22	Date		YYMMDD		6	I6
		28	Hour		HH	00-23	2	I2
		30	Hourly test data for alternative monitoring system				13	F13.3
			Hourly lognormalized test data for alternative monitoring system				13	F13.3
		56	Hourly test data for reference CEMS				13	F13.3
		69	Fuel type code				2	12
		71	Operating level (L-low, M-mid, H-high) (Use N-normal for peaking units only)			L,M,H,N	1	A1
		72	Gross unit load		MWe		6	I6
		•	•	•	Total Reco	ord Length	77	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		•	ALTERNATIVE MONITORING	PETITION	DATA	•		
Alternative Monitoring	641	1	Record type code				3	I3
System		4	Unit/Stack ID				6	A6
Approval Petition		10	Component ID				3	A3
Results and		13	Monitoring system ID				3	A3
Statistics		16	Unit of measure (1-ppm, 2-lb/mmBtu, 3-scfh, 4-%CO ₂ , 5-%O ₂ , 6-mmBtu/hr, 7-%H ₂ O)			1-7	1	A1
		17	Arithmetic mean of AMS values				13	F13.3
		30	Arithmetic mean of CEM values				13	F13.3
		43	Arithmetic mean of differences of paired AMS and CEM values				13	F13.3
		56	Variance of differences				13	F13.3
		69	Variance of measured values of AMS				13	F13.3
		82	Variance of measured values for CEM				13	F13.3
		95	F-statistic				13	F13.3
		108	Critical value of F at 95% confidence level for sample size				13	F13.3
		121	Coefficient of correlation (Pearson's r) of CEM and AMS data				13	F13.3
		134	Shapiro-Wilk test statistic (W) for AMS data				13	F13.3
		147	Shapiro-Wilk test statistic (W) for CEMS data				13	F13.3
		160	Lognormally adjusted data used in final analysis (1-yes, 0-no)			0,1	1	I1
		161	Autocorrelation coefficient (D) for AMS data				13	F13.3
		174	Autocorrelation coefficient (D) for CEM data				13	F13.3
		187	Autocorrelation coefficient (D) for differences of paired AMS and CEM data				13	F13.3
		200	Adjustment for autocorrelation used in final analysis (1-yes, 0-no)			0,1	1	I 1
		201	Covariance of alternative monitoring data and associated lag(1) values				13	F13.3
		214	Covariance of continuous emission monitoring data and associated lag(1) values				13	F13.3
		227	Covariance of differences of paired AMS and CEM data				13	F13.3
		240	Standard deviation of AMS data				13	F13.3
		253	Standard deviation of CEM data				13	F13.3
		266	Standard deviation of differences of paired AMS and CEM data				13	F13.3
		279	Standard deviation of lag(1) AMS data				13	F13.3
		292	Standard deviation of lag(1) CEM data				13	F13.3
		305	Standard deviation of lag(1) differences of paired AMS and CEM data				13	F13.3
		318	Variance inflation factor for AMS data				13	F13.3
		331	Variance inflation factor for CEM data				13	F13.3
		344	Variance inflation factor for difference of paired AMS and CEM data				13	F13.3
		•	1	1	Total Rec	ord Length	356	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA						
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)		
	LOW MASS EMISSIONS CERTIFICATION DATA									
Qualifying	645	1	Record type code				3	I3		
Data for Low Mass		4	Unit ID				6	A6		
Emissions Units		10	Calendar year of application		YYYY		4	I4		
Excepted Methodology		14	Type of qualification			YR,OS	2	A2		
(Modified)		16	Year 1		YYYY		4	I4		
(20	Annual or OS measured/projected/estimated NO _x mass emissions for Year 1		ton		4	F4.1		
		24	Annual or OS NO _x mass calculated from emission factors for Year 1 [Reserved]		ton		4	F4.1		
		28	Annual measured/projected/estimated SO ₂ mass emissions for Year 1	ARP only	ton		4	F4.1		
		32	Annual SO ₂ mass calculated from emission factors for Year 1 [Reserved]	ARP only	ton		4	F4.1		
		36	Annual or OS operating hours for Year 1		hrs		4	I4		
		40	Year 2		YYYY		4	I4		
		44	Annual or OS measured/projected/estimated NO _x mass emissions for Year 2		ton		4	F4.1		
		48	Annual or OS NO, mass calculated from emission factors for Year 2 [Reserved]		ton		4	F4.1		
		52	Measured/projected/estimated SO ₂ mass emissions for Year 2	ARP only	ton		4	F4.1		
		56	Annual SO ₂ mass calculated from emission factors for Year 2 [Reserved]	ARP only	ton		4	F4.1		
		60	Annual or OS operating hours for Year 2		hrs		4	I4		
		64	Year 3		YYYY		4	I4		
		68	Annual or OS measured/projected/estimated NO _x mass emissions for Year 3		ton		4	F4.1		
		72	Annual or OS NO _x mass calculated from emission factors for Year 3 [Reserved]		ton		4	F4.1		
		76	Measured/projected/estimated SO ₂ mass emissions for Year 3	ARP only	ton		4	F4.1		
		80	Annual SO ₂ mass calculated from emission factors for Year 3 [Reserved]	ARP only	ton		4	F4.1		
		84	Annual or OS operating hours for Year 3		hrs		4	I4		
					Total Record	Length	87			

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		AP	PENDIX E AND UNIT SPECIFIC DEFAULT	EMISSION	RATE TEST	DATA		
NO _x Emission	650	1	Record type code				3	I3
Rate Correlation		4	Unit/Pipe ID				6	A6
Test Data (Modified)		10	Monitoring system ID for Appendix E NO _x system	Appendix E only			3	A3
(Modified)		13	Reference method run start date		YYMMDD		6	I6
		19	Reference method run start time		HHMM	0000-2359	4	I4
		23	Reference method run end date		YYMMDD		6	I6
		29	Reference method run end time		HHMM	0000-2359	4	I4
		33	Reference method response time		sec	0-800	3	I3
		36	Value from reference method during run		lb/mmBtu		8	F8.3
		44	Run number				2	I2
		46	Operating level (1-lowest)			1-99	2	I2
		48	Type of fuel combusted ⁵				1	A1
		49	Total heat input during the run		mmBtu		7	F7.1
		56	Reserved				3	
		59	Hourly heat input rate during run		mmBtu/hr		7	F7.1
		66	Test number		1111125 (68) 111		2	I2
		68	Flag to indicate this run used to calculate highest 3-run NO _x emission rate average at any tested load level for unit-specific, fuel-specific NO _x emission rate testing (H highest value)	LME unit default testing only		Н	1	A1
		69	NOx default rate (Highest 3-run average)	LME unit default testing only	lb/mmBtu		6	F6.3
		75	Base-load or Peak-load test	LME unit default testing only		B, P, A	1	A1
		76	NOx default rate for peak load hours	LME unit default testing only			6	F6.3
_					Total Reco	rd Length	81	
NO _x Emission	651	1	Record type code				3	I3
Rate Correlation		4	Unit/Pipe ID				6	A6
Results		10	Monitoring system ID for Appendix E NO _x system				3	A3
		13	Completion date of last run in level		YYMMDD		6	I6
		19	Completion time of last run in level		HHMM	0000-2359	4	I4
		23	Arithmetic mean of reference method values at this level		lb/mmBtu		8	F8.3
		31	F-factor converting NO _x concentrations to emission rates				10	F10.1
		41	Average heat input rate at this level		mmBtu/hr		7	F7.1
		48	Operating level (1-lowest)			1-99	2	I2
		50	Type of fuel combusted ⁵				1	A1
		51	Test number				2	I2
•					Total Reco	rd Length	52	

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TE	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
		AP	PENDIX E AND UNIT SPECIFIC DEFAULT	EMISSION	RATE TEST	DATA		
Heat Input from	652	1	Record type code				3	I3
Oil Combusted During Test		4	Unit/Pipe ID				6	A6
During Test		10	Monitoring system ID for oil fuel flow system				3	A3
		13	Run start date		YYMMDD		6	I6
		19	Run start time		HHMM	0000-2359	4	I4
		23	Run end date		YYMMDD		6	I6
		29	Run end time		HHMM		4	I4
		33	Run number				2	I2
		35	Mass of oil combusted during run		lb		10	F10.1
		45	Gross calorific value (GCV) of oil				10	F10.1
		55	Heat input from oil during run		mmBtu		7	F7.1
		62	Volume of oil combusted during run				10	F10.1
		72	Units of measure for oil flow ⁵				5	A5
		77	Density of oil				8	F8.6
		85	Units of measure for density of oil 5				5	A5
		90	Test number				2	I2
		92	Units of measure for GCV ⁵				6	A6
					Total Reco	rd Length	97	
Heat Input from	653	1	Record type code				3	I3
Gas Combusted During Test		4	Unit/Pipe ID				6	A6
During Test		10	Monitoring system ID for gas fuel flow system				3	A3
		13	Run start date		YYMMDD		6	I6
		19	Run start time		HHMM	0000-2359	4	I4
		23	Run end date		YYMMDD		6	I6
		29	Run end time		HHMM	0000-2359	4	I4
		33	Volume of gas combusted during run		100 scf		10	F10.1
		43	Gross calorific value (GCV) of gas		Btu/100 scf		10	F10.1
		53	Heat input from gas during run		mmBtu		7	F7.1
		60	Test number				2	I2
·			•	-	Total Reco	rd Length	61	
Unit Group	660	1	Record type code				3	I3
Testing		4	Group ID				8	A8
		12	ORIS code or facility ID				6	I6
(Modified)		18	Plant name				20	A20
LME and OTC		38	Unit ID				6	A6
Only		44	Test status (AE-App. E testing performed, OT-other testing performed (NBP only), NT-no testing performed)			AE, OT, NT	2	A2
		46	Test date for unit (blank, if not tested)		YYYYMMDD		8	18
		54	Default rate from identical unit testing (if applicable)		lb/mmBtu		6	F6.3
		60	Purpose of group tests (AE-Appendix E, DF-default rate) [Reserved]			AE,DF	2	A2
		62	Type of fuel ⁵				1	A1
		63	NO _x monitoring system ID [Reserved]	OTC Appendix E only			3	A3
		1	<u> </u>		Total Reco	rd Length	65	I

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)
			QA TEST EXTENSIONS/EXEMI	PTION CLA	IMS			
Single-load or	695	1	Record type code				3	I3
Single-level Flow		4	Unit/Stack ID				6	A6
RATA Claim		10	Monitoring system ID				3	A3
		13	End date of last annual flow RATA		YYYYMMDD		8	I8
(Modified)		21	End date of historical load data collection period		YYYYMMDD		8	18
		29	Historical % usage of low load or operating level (# 30.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		34	Historical % usage of mid load or operating level (>30.0 through 60.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		39	Historical % usage of high load or operating level (>60.0% of range of operation) in the load data collection period		%	0-100.0	5	F5.1
		44	Load or operating level for the single-load (or single-level) flow RATA			L,M,H	1	A1
					Total Recor	d Length	44	
Fuel Flowmeter	696	1	Record type code				3	I3
Accuracy Test Extension		4	Unit/Pipe ID				6	A6
Extension		10	Monitoring system ID				3	A3
		13	Date of last accuracy test		YYYYMMDD		8	I8
		21	Accuracy test expiration date without extension		YYYYMMDD		8	I8
		29	Accuracy test expiration date with extension		YYYYMMDD		8	I8
		37	Type of extension ²⁶			1-4	2	I2
		39	Quarter and year		QYYYY		5	A5
			<u> </u>	1	Total Recor	d Length	43	
RATA Deadline Extension or	697	1	Record type code				3	I3
Exemption		4	Unit/Stack ID				6	A6
Zaempuon		10	Monitoring system ID				3	A3
0.6 110 15		13	Date of last RATA		YYYYMMDD		8	18
(Modified)		21	RATA expiration date without extension		YYYYMMDD		8	I8
		29	RATA expiration date with extension		YYYYMMDD		8	I8
		37	Type of RATA extension or exemption claimed or lost ²⁷			1- 89	2	12
		39	Year-to-date usage of fuel with sulfur content higher than very low sulfur fuel (as defined in § 72.2)		hrs		4	I4
		43	Year-to-date hours of regular non-redundant back-up CEMS use at this unit/stack		hrs		4	I4
		47	Quarter and year		QYYYY		5	A5
					Total Recor	d Length	51	

26 Limited to table of codes:

- 1 Accuracy test extension (reporting quarter does not qualify as a "fuel flowmeter QA operating quarter")
- 2 Accuracy test extension based on successful fuel flow-to-load ratio or GHR test
- 3 Accuracy test extension based on ongoing baseline data collection for fuel-to-load ratio or GHR test
- 4 Extension claimed because fewer than 168 hours of fuel flowmeter data remained for fuel flow-to-load ratio analysis, after allowable data exclusions were taken under Section 2.1.7.3 of Appendix D
- 5 Extension for first or fourth calendar quarter for ozone season reporter using fuel flow-to-load test.
- 27 Limited to table of codes:
- 1 RATA deadline extension claimed for the monitoring system identified in RT 697/10. Unit/stack operated for fewer than 168 hours this quarter
- 2 SO₂ RATA deadline extension claimed. Only very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- 3 Ongoing SO_2 RATA exemption claimed. Only very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- 4 Conditional SO₂ RATA exemption claimed. Year-to-date usage of fuel with a higher sulfur content than 'very low sulfur' fuel (as defined in § 72.2) is # 480 hours.
- 5 Conditional RATA exemption claimed. Year-to-date usage of a regular (B) non-redundant backup monitoring system at this unit/stack is < 720 hours and less than 8 full quarters have elapsed since last RATA
- 6 Ongoing SO₂ RATA exemption lost. Fuel with a higher sulfur content than very low sulfur fuel (as defined in § 72.2) was combusted this quarter
- 7 Conditional SO₂ RATA exemption lost. Year-to-date usage of fuel with a higher sulfur content than very low sulfur fuel (as defined in § 72.2) has exceeded 480 hours
- 8 Conditional RATA exemption lost. Year-to-date usage of a regular non-redundant backup monitoring system has exceeded 720 hours at this unit or stack
- 9 Exemption From Performing Single-Load RATA at Normal Load. An EPA-approved exemption from performing a required single-load RATA at a normal load is claimed.

TABLE 64: CERTIFICATION TEST DATA AND RESULTS

			CERTIFICATION TES	ST DATA					
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	FIELD NOTES	UNITS	RANGE	LENGTH	FORMAT (FTN)	
	QA TEST EXTENSIONS/EXEMPTION CLAIMS								
Quarterly QA Test Exemption	698	1	Record type code				3	I3	
Claim		4	Unit/Stack ID				6	A6	
		10	Component ID				3	A3	
		13	Monitoring system ID				3	A3	
		16	Basis for exemption ²⁸			1-9	1	I1	
		17	Type of test			F,K,L	1	A1	
		18	Quarter and year		QYYYY		5	I5	
		23	Span scale			L,H	1	A1	
				•	Total Recor	rd Length	23		
QA Test Extension Claim	699	1	Record type code				3	I3	
Based on Grace		4	Unit/Stack ID				6	A6	
Period		10	Component ID				3	A3	
		13	Monitoring system ID				3	A3	
		16	Type of test (K-Leak Test, L-linearity, R-RATA)			K,L,R	1	A1	
		17	Beginning of grace period		YYYYMMDD		8	18	
		25	Date of completion of required QA test		YYYYMMDD		8	18	
		33	Hour of completion of required QA test		НН	00-23	2	I2	
		35	Number of unit/stack operating hours from beginning of grace period to completion of QA test or maximum allowable grace period		hrs		3	13	
		38	Date of end of grace period		YYYYMMDD		8	18	
		46	Hour of end of grace period		НН	00-23	2	I2	
					Total Recor	rd Length	47		

Exemption for fewer than 168 unit/stack operating hours in quarter or reporting period Linearity exemption analyzer range not used during calendar quarter (dual span only) Flow-to-load test exemptions approved by petition under §75.66 and Section 7.8 of Appendix A Linearity exemption for SO_2 or NO_x analyzer span value # 30 ppm

TABLE 75: COMPLIANCE CERTIFICATION DATA

			CERTIFICATION INFO	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION	PROGRAM	UNITS	RANGE	LENGTH	FORMAT (FTN)
			CERTIFICATION D	ATA				
Part 75	900	1	Record type code				3	I3
Certification Statement and Designated		4	Electronic representation of Part 75 certification statements ²⁹				18	A18
Representative Signature		22	DR last name				25	A25
ARP Only		47	DR first name				15	A15
ARF Only		62	DR middle initial				2	A2
		64	Date of signature			YYMMDD	6	I6
		70	Title (DR or ADR)			DR,ADR	3	A3
				Tota	Record L	ength	72	
Part 72 Certification	901	1	Record type code				3	I3
Statement		4	Certification statement line #			1-12	2	I2
ARP Only		6	Certification text (see instructions for verbatim text)				67	A67
				Tota	Record L	ength	72	
Cover Letter	910	1	Record type code				3	I3
Text (file- specific)		4	Cover letter text, file-specific (see instructions)				69	A69
(Optional)		l		Tota	Record L	ength	72	
Cover Letter	920	1	Record type code				3	I3
Text (not specific to file)		4	4 Other cover letter text, not file-specific (see instructions) 69				A69	
(Optional)				Tota	l Record L	ength	72	

The code for this data element is either "CERTIFY," "CERTIFY CONTROLLED," or "CERTIFY DEFERRED."

"CERTIFY" means:

"I understand that EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.12.2, as required by 40 CFR 75.64.

I certify that all data submitted in this report were recorded in accordance with the applicable requirements of 40 CFR Part 75, and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

"CERTIFY CONTROLLED" means:

"I certify that for all hours in which data are submitted following the provisions of 75.34(a)(a) that the add-on emission controls were operating within the range of parameters listed in the monitoring plan and that the substitute values recorded during the quarter do not systematically underestimate SO_2 or other emissions, pursuant to § 75.34.

I understand that EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version $\frac{2.+2.2}{2.}$, as required by 40 CFR $\frac{1}{2.00}$ 75.64.

I certify that all data submitted in this report were recorded in accordance with the applicable requirements of 40 CFR Part 75, and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

"CERTIFY DEFERRED" means:

"I understand that for non-operating, affected unit(s) that are not yet certified under 40 CFR 75.4, this electronic report does not have to be generated by a Data Acquisition and Handling System.

I certify that one or more of the affected units identified in this electronic report did not operate and did not generate any SO_2 , NO_x , or CO_2 emissions during the reporting period specified in the quarterly submission."

TABLE 75: COMPLIANCE CERTIFICATION DATA

			CERTIFICATION INFO	RMATION				
RECORD TYPE	TYPE CODE	START COL	DATA ELEMENT DESCRIPTION PROGRAM UNITS RAN			RANGE	LENGTH	FORMAT (FTN)
Subpart H Certification	940	1	Record type code				3	I3
Statement and NO _x Authorized		4	Electronic representation of NO _x Budget Program certification statements ³⁰				18	A18
Account Representative		22	AAR last name				25	A25
Signature		47	AAR first name				15	A15
		62	AAR middle initial				2	A2
Subpart H Only		64	Date of signature				6	I6
Omy		70	Title (AAR or AAAR)				4	A4
		I		Total Record I	ength		73	
Subpart H General	941	1	Record type code				3	I3
Certification Statement		4	Certification statement line #			1-11	2	I2
Subpart H Only		6	Certification text (ask State for verbatim text)				67	A67
		I.		Total Record I	ength		72	
	999	1	Record type code				3	I3
Contact Person		4	First name				10	A10
Record		14	Last name				15	A15
(Optional)		29	Role/Position of contact person				20	A20
		49	Company				20	A20
		69	DR indicator flag (D-DR/ADR/AAR/AAAR, N-Other)			D,N	1	A1
		70	Phone #				10	I10
		80	Fax #				10	I10
		90	E-mail address				75	A75
'				Total	Record L	ength	164	

The code for this data element is either "CERTIFY," "CERTIFY CONTROLLED," or "CERTIFY DEFERRED."

Unless otherwise specified by State requirements, "CERTIFY" means:

"I understand that the State or EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.12.2.

I certify that all data submitted in this report were recorded in accordance with Part 75 and any applicable State requirements and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

Unless otherwise specified by State requirements, "CERTIFY CONTROLLED" means:

"I certify that for all hours in which data are substituted that the add-on emission controls were operating within the range of parameters listed in the monitoring plan and that the substitute values recorded during the quarter do not systematically underestimate emissions.

I understand that the State or EPA may reject any electronic data submission (including Quarterly Reports) if it does not conform to the formatting requirements of EPA's Electronic Data Reporting, Version 2.12.2.

I certify that all data submitted in this report were recorded in accordance with Part 75 and any applicable State requirements and that all emissions and quality control data are reported using component ID codes, system ID codes, and formula ID codes which represent current operating conditions."

Unless otherwise specified by State requirements, "CERTIFY DEFERRED" means:

"I understand that for non-operating, affected unit(s) that are not yet certified under Part 75 and applicable State regulations, this electronic report does not have to be generated by a Data Acquisition and Handling System.

I certify that one or more of the affected units identified in this electronic report did not operate and did not generate any NO_x emissions during the reporting period specified in the submission."

Appendix A

Table A-1: Structural Differences Between EDR v2.1 and v2.2

Record Type	Data Field Added	Description of New Data Field	Reason for Change	Change Affects Whom ?
300	3-character alphanumeric field at column 64	Type of fuel combusted during the hour	June 2002 rule allows the use of fuel- specific missing data substitution for units with CEMS	Units selecting the new fuel-specific CEMS missing data options in § 75.33 and units with unmonitored bypass stacks, reporting fuel-specific MPC or MER during bypass hours
360	1-character alphanumeric field at column 86	Base Load or Peak Load Hour	June 2002 rule requires certain LME units to use separate NOx default rate values for peak load and base load hours	LME combustion turbines that operate principally at base load or set point temperature but can operate at a higher peak load or higher internal operating temperature.
504	1-character alphanumeric field at column 53	Non load-based unit identifier	June 2002 rule extends the use of Part 75 monitoring to non load-based units	Non load-based units (e.g., cement kilns, process heaters)
605	1-character alphanumeric field at column 63	Separate reference ratios calculated for each multiple stack	June 2002 rule allows this alternative methodology for calculating flow-to-load reference ratio for multiple stacks	Units measuring stack flow in multiple stacks who elect to calculate separate flow-to-load reference ratios.
650	1-character alphanumeric field at column 75	Base-load or Peak- load test	June 2002 rule requires certain LME units to use separate NOx default rate values for peak load and base load hours	LME combustion turbines that operate principally at base load or set point temperature but can operate at a higher peak load or higher internal operating temperature.
650	6-character numeric field at column 76	NOx default rate for peak load hours		mema operating temperature.

Table A-2: Differences between EDR v2.1 and EDR v2.2 Data Elements, Fields and Codes**

Record Type	Data Field(s) Affected	Description of Change from EDR v2.1	Reason for Change
100	Column 15	Eliminate reference to EDR version 2.0 and Replace "2.1" with "2.2"	New EDR version
102	Column 24	Reserve this field	FINDS ID system is no longer in existence
200	Column 41	Add MODC "22"	June, 2002 rule allows data to be reported from a certified inlet ${\rm SO}_2$ monitor in certain instances
201	Column 30	Add MODC "22"	June, 2002 rule allows data to be reported from a certified inlet NO_x monitor in certain instances
202	Column 30	Remove MODC "23"	The standard missing data procedures are used for O ₂ , CO ₂ , and
210	Column 29		H ₂ O during bypass hours
211	Column 29		
212	Column 32		
220	Column 54	Change data element description to incorporate "operational bins" for non load-based units	June, 2002 rule includes new missing data provisions for non load-based units (e.g., cement kilns, process heaters)
220	Column 56	Remove MODC "23"	This code is not supported by the rule. Regular missing data routines are used for flow during scrubber bypass hours
300	Column 34	Change data element description to incorporate "operational bins" for non load-based units	June, 2002 rule includes new missing data provisions for non load-based units (e.g., cement kilns, process heaters)
302	Column 31	Modify codes	Remove obsolete OTC codes
302	Column 32	Change data element description to incorporate "operational bins" for non load-based units	June, 2002 rule includes new missing data provisions for non load-based units (e.g., cement kilns, process heaters)
302	Column 44	Reserve this field	This field was used only by OTC sources
302	Column 74	Modify codes	Make codes consistent with existing policy guidelines
302	Column 88	Reserve this field	This field was used only by OTC sources
302	Columns 90, 92	Modify code descriptions	June, 2002 rule included changes to oil sampling provisions
303	Column 31	Modify codes	June, 2002 rule has new provisions for emergency fuel combustion. Also, remove obsolete OTC codes.
303	Column 32	Change data element description to incorporate "operational bins" for non load-based units	June, 2002 rule includes new missing data provisions for non load-based units (e.g., cement kilns, process heaters)

Table A-2: Differences between EDR v2.1 and EDR v2.2 Data Elements and Fields (cont.)

Record Type	Data Field(s) Affected	Description of Change from EDR v2.1	Reason for Change
303	Column 44	Reserve this field	This field was used only by OTC sources
303	Column 60	Modify codes	Delete unnecessary codes. Change code descriptions to better match the June, 2002 rule
305	Column 13	Add new codes for Type of Fuel	June, 2002 rule allows units burning "other gaseous fuels" to qualify as LME units
313	Column 44	Delete unnecessary code "0". Modify other code descriptions	Make code descriptions consistent with the June, 2002 rule
314	Column 52	Modify code descriptions	Make code descriptions consistent with the June, 2002 rule
320	Column 48	Change data element description to incorporate "operational bins" for non load-based units	June, 2002 rule includes new missing data provisions for non load-based units (e.g., cement kilns, process heaters)
320	Column 53	Add MODC "22"	June, 2002 rule allows data to be reported from a certified inlet NO_x monitor in certain instances
323	Column 21	Add new codes for Parameter Status Flag	June, 2002 rule changed the data substitution procedures for Appendix E for emergency fuels and uncontrolled hours
324	Column 24	Add new codes for Parameter Status Flag	June, 2002 rule changed the data substitution procedures for Appendix E for emergency fuels and uncontrolled hours
360	Column 41	Add new codes for Fuel Type	June, 2002 rule allows units burning "other gaseous fuels" to qualify as LME units
504	Column 10	Add new codes for Unit Type	June, 2002 rule provides reporting provisions for non load-based units
505	Column 10	Delete unnecessary code "SIP". Modify other code descriptions	Clarify program identifier codes for OTC sources transitioning to Subpart H monitoring and reporting
506	Column 31	Reserve this field	Eliminate confusion over ORISPL number versus facility ID number
510	Column 21	Add a new code, "CI", to list of "primary/backup" designations in footnote 18	June, 2002 rule allows data to be reported from a certified inlet ${\rm SO}_2$ monitor in certain instances
510	Column 23	Add new component type code "TANK"	Code needed for groups of LME units served by a common oil supply tank
520	Column 18	Add new code "F-19V"	June, 2002 rule allows Subpart H units to determine heat input directly from data recorded by a volumetric fuel flowmeter
530	Column 15	Add new codes	June, 2002 rule provides two new MPC/MEC determination methods for $\mathrm{NO_x}$
530	Column 62	Add new codes "AMSEC", "SMSEC"	Metric velocity units are used for the daily calibrations of certain stack flow monitors
530	Column 84	Modify data element description in EDR format	Clarify that "default value" refers to the "default high range value"
531	Column 10	Add new codes to Parameter	June, 2002 rule allows units burning "other gaseous fuels" to qualify as LME units and use Unit-specific SO2 and CO2 default emission rate. Also, rule allows fuel-specific missing data and maximums for unmonitored bypass stacks
531	Column 27	Add new code "PPM"	Code is needed for sources reporting fuel-specific maximum potential SO_2 and NO_x values
531	Column 34	Add new codes for Purpose or Intended Use	June 2002 rule requires certain turbines using LME to define separate rates for base load and peak load hours
531	Column 37	Add new codes to Type of Fuel	June 2002 rule allows fuel-specific missing data and fuel- specific maximum defaults for unmonitored bypass stacks
531	Column 65	Revise data element description	This field applies to units using Equation F-23, as well as LME units.
535	Column 18	Reserve this field	This field was used only by OTC sources.
535	Column 19	Modify the data element description. Add one new code, "2", and redefine code "S".	June, 2002 rule allows certain units with installed flow monitors to be exempted from 3-load flow RATA testing
536	Columns 10, 16, 22, 25, 26,27	Add references to "operating level" in title and in several data element descriptions. Add "ft/sec" to the "UNITS" column	June, 2002 rule includes provisions for non load-based units to determine the range of operation and normal operating levels

Table A-2: Differences between EDR v2.1 and EDR v2.2 Data Elements and Fields (cont.)

Record Type	Data Field(s) Affected	Description of Change from EDR v2.1	Reason for Change
540	Column 38	Add new code "ISO"	An "ISO" fuel flowmeter calibration method is listed in section 2.1.5.1 of Appendix D
560	Column 57	Reserve this field	This field was used only by OTC sources.
585	Column 14	Add new codes for Monitoring Methodology	June, 2002 rule allows units burning "other gaseous fuels" to qualify as LME units and use Unit-specific SO2 and CO2 default emission rate. Also, rule allows fuel-specific maximums for unmonitored bypass stacks
585	Column 24	Add new fuel codes	Certain Acid Rain and Subpart H units combust unusual fuels (e.g., process sludge, coal refuse, etc.)
585	Column 28	Add new codes for Missing Data Approach	June 2002 rule allows fuel-specific, ozone-season specific and non load-based missing data procedures
586	Column 46	Delete reference to OTC from "FIELD NOTES"	The OTC Program is superseded by the NO _x Budget Trading Program
587	Column 10	Add new fuel types	Certain Acid Rain and Subpart H units combust unusual fuels (e.g., process sludge, coal refuse, etc.)
587	Column 30	Delete "OTC" from "FIELD NOTES" column	The OTC Program is superseded by the NO _x Budget Trading Program
587	Column 34	Revise data element description	June, 2002 rule allows units that combust "other" gaseous fuels to qualify for annual sulfur sampling frequency, based on results of the demonstration in section 2.3.6 of Appendix D.
610	Column 64	Add "ft/sec" to the "UNITS" column, for the Load or Operating Level field	June, 2002 rule includes provisions for non load-based units, defining operating levels in terms of stack gas velocity
611	Column 23	Add new code for Reference Method 20	June, 2002 rule allows Reference Method 20 to be used for NO _x RATAs
611	Columns 117, 127, 133, 134	Add references to "operating level" in several data element descriptions. Add "ft/sec" to the "UNITS" column	June, 2002 rule includes provisions for non load-based units, defining operating levels in terms of stack gas velocity
624	Column 53	Added QA test codes for PEMS	Monitoring under Subpart E would require these new codes
627	Columns 26 and 34	Modify data element descriptions	Make consistent with existing policy guidance
629	Column 90	Modify data element description	June, 2002 rule allows a new data exclusion (for co-firing) for the fuel flow-to-load ratio test
630	Column 32	Modify data element description	June, 2002 rule allows a new data exclusion (for co-firing) for the fuel flow-to-load ratio test
645	Columns 20, 24, 28, 32, 44, 48, 52, 56, 68, 72, 76, 80	Modify certain data element descriptions. Reserve several fields.	June, 2002 rule significantly changes the methodology for a unit to qualify as a low mass emissions (LME) unit
650	Column 68	Modify the element description	June, 2002 rule changes the method of determining LME default NO_x emission rates
650	Column 69	Modify the element description	June, 2002 rule changes the method of determining LME default NO_{x} emission rates
660	Column 44	Remove the code "OT"	This code applied only to OTC sources
660	Columns 60 and 63	Reserve these fields	These fields were needed only for OTC sources.
695	Columns 21,29,34,39,44	Add references to "operating level" in several data element descriptions.	June, 2002 rule includes provisions for non load-based units, defining operating levels in terms of stack gas velocity
697	Column 37	Add code "9"	Special code for single-load RATA performed at a non-normal load (requires EPA approval)

^{**} To properly assess the changes made to the codes for a particular data field, see the "EDR Version 2.2 Reporting Instructions" for that field, in addition to Tables 2 through 5 of this document.